3R – 315 2014 AGWMR 04 / 10 / 2015



One Williams Center P.O. Box 645 Tulsa, OK 74101-0645

April 10, 2014

Glenn Von Gonten New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: Online Submission of 2014 Annual Groundwater Reports

Dear Mr. Von Gonten,

Williams Field Services (Williams) is electronically submitting the attached 2014 annual groundwater monitoring reports covering the period from January 1, 2014 to December 31, 2014 for the following sites:

- Davis #1 (3RP-311-0);
- Dogie East Pit (3RP-312-0);
- Florance #40 (3RP-315-0);
- Florance #47X (3RP-317-0);
- Ice Canyon Drip (3RP-322-0);
- Jicarilla Contract #147-6 (3RP-325-0); and
- Pritchard #2A (3RP-339-0).

If you have any questions regarding these reports please contact me at 918-573-4371 or <u>Danny.Reutlinger@Williams.com</u> or Ashley Ager with LT Environmental at 970-385-1096 or <u>aager@ltenv.com</u>.

Sincerely, Williams Field Services

mm

Danny Reutlinger Senior Project Manager

cc: Attachments (7)

2014 ANNUAL GROUNDWATER REPORT

FLORANCE #40 ADMINISTRATIVE/ENVIRONMENTAL ORDER NUMBER 3RP-315-0

APRIL 2015

Prepared for:

WILLIAMS FIELD SERVICES, LLC TULSA, OKLAHOMA



2014 ANNUAL GROUNDWATER REPORT

FLORANCE #40 ADMINISTRATIVE/ENVIRONMENTAL ORDER NUMBER 3RP-315-0

APRIL 2015

Prepared for:

WILLIAMS FIELD SERVICES, LLC PO Box 3483, MD 48-6 Tulsa, Oklahoma 74101

Prepared by:

LT ENVIRONMENTAL, INC. 2243 Main Avenue, Suite 3 Durango, Colorado 81301 (970) 385-1096



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EXECUTIVE SUMMARY

Groundwater at the Florance #40 (Administrative/Environmental Order Number 3RP-315-0) (Site) is impacted by petroleum hydrocarbons due to releases from two separate source areas: a former earthen separator pit and a former dehydrator pit and. BP America Production Company (BP) is responsible for impacts from the former earthen separator pit and Williams Field Services, LLC (Williams) retains remedial responsibility for the former dehydrator pit. In 1996, Gas Company of New Mexico (GCNM), the former operator of the dehydrator pit, removed impacted soil and installed four groundwater monitoring wells between 1996 and 1997 (MW-1, MW-2, MW-3, and MW-4) to assess groundwater quality. Downgradient monitoring wells MW-5 and MW-7 were installed in 2000 and a damaged MW-2 was replaced by MW-6. Williams purchased former GCNM facilities from Public Service Company of New Mexico (PNM) in 2000 and assumed environmental liability for the former dehydrator pit, which includes water quality in groundwater monitoring wells AMOCO, MW-1, and MW-5. Although MW-5 is in BP's area of responsibility, Williams utilizes the monitoring well as an upgradient monitoring point for groundwater elevations.

Since 2000, Williams has monitored groundwater quality and conducted free-phrase product removal in their monitoring wells. During 2014, Williams retained LT Environmental Inc. (LTE) to complete annual sampling requirements. Between January 2014 and December 2014, LTE conducted four groundwater monitoring events (March 2014, June 2014, September 2014, and December 2014).

Overall depth to groundwater at the Site has decreased to elevations that are below the total depths of most of the groundwater monitoring wells. Groundwater monitoring wells MW-3, MW-5, MW-6, and MW-7 were not sampled during 2014 due to insufficient water volume in the monitoring wells. Groundwater monitoring well MW-4 was sampled quarterly and benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations were compliant with the New Mexico Water Quality Control Commission groundwater standards in samples collected each quarter. Depth to groundwater data collected in 2014 indicated the groundwater flow direction was south/southwest.

Williams proposes to continue to monitor depth to groundwater and investigate presence of freephrase product in the monitoring wells quarterly. When possible, groundwater samples will be collected from MW-3, MW-4, MW-5, MW-6, and MW-7 and analyzed for BTEX.



1.0 INTRODUCTION

LT Environmental, Inc. (LTE) on behalf of Williams Field Services, LLC (Williams) has prepared this report detailing groundwater monitoring completed from January 2014 through December 2014 at the Florance #40 (Administrative/Environmental Order Number 3RP-315-0) (Site). The scope of work for this project was continued monitoring of petroleum hydrocarbon impacts to groundwater as a result of operations of a former separator pit. LTE conducted quarterly groundwater monitoring to measure depth to groundwater, investigate phase-separated hydrocarbons (PSH), and collect groundwater samples, when possible, for laboratory analysis.

1.1 LOCATION

The Site is located at latitude 36.799827 and longitude -107.678573 in Unit G, Section 21, Township 30 North, Range 8 West. The Site is near Gobernador Canyon in the San Juan Basin in San Juan County, New Mexico (Figure 1).

1.2 HISTORY

There are two separate source areas at the Site: a former Amoco Production Company earthen separator pit that is now the responsibility of BP America Production Company (BP) and a former Public Service Company of New Mexico (PNM) dehydrator pit that is now the responsibility of Williams (Figure 2). According to a letter dated December 30, 1997, from the New Mexico Oil Conservation Division (NMOCD) to Amoco, Amoco was responsible for remediation of soil and groundwater contamination downgradient of the former earthen separator pit, and PNM was responsible for groundwater contamination downgradient of the former dehydrator pit.

In 1996, 646 cubic yards of petroleum hydrocarbon impacted soil was removed from the former dehydrator pit by PNM. The floor of the excavation was 17 feet below ground surface (bgs) and field screening indicated petroleum hydrocarbon impacted soil remained at this depth. A test hole (later converted to groundwater monitoring well MW-2) was installed 24 feet south of the former dehydrator pit. Impacts were observed from 20 feet bgs to the total depth of 50 feet bgs in soil, and groundwater sampled from the monitoring well contained 11,507 micrograms per liter (μ g/L) of benzene, toluene, ethylbenzene, and total xylenes (BTEX). Groundwater monitoring well MW-1 was installed upgradient (north) of the source area and impacted soil was observed between 40 feet and 55 feet bgs.

In 1997, groundwater monitoring wells MW-3 and MW-4 were installed downgradient of the former dehydrator pit. In August 1997, the casing for groundwater monitoring well MW-2 collapsed and the well was replaced with groundwater monitoring well MW-6 in March 2000. At that same time, upgradient monitoring well MW-5 and downgradient monitoring well MW-7 were installed.

In 1998, Blagg Engineering installed groundwater monitoring well AMOCO in or adjacent to the former earthen separator pit and took over monitoring of existing monitoring wells MW-1 and MW-5.

Williams purchased the former Gas Company of New Mexico (GCNM) facilities from PNM in 2000 and assumed environmental liability for the former dehydrator pit. Between 2000 and 2012, Williams monitored groundwater. Groundwater monitoring wells MW-3 and MW-6 contained PSH at some time between 1997 and 2002; it is not known if PSH was recovered from groundwater monitoring wells during this time. A fully saturated product recovery sock was discovered in groundwater monitoring well MW-1 during the February 2013 site visit, indicating product recovery had been occurring in this well. Records regarding these activities can be found in previous groundwater reports submitted to the NMOCD. Monitoring wells AMOCO and MW-1 were sampled by Williams in February 2013 during a site re-evaluation. However, since the monitoring wells are in BP's area of responsibility, they have not been sampled since.

2.0 METHODOLOGY

Groundwater monitoring activities were conducted at the Site in March 2014, June 2014, September 2014, and December 2014. LTE measured depth to water and investigated presence of PSH in groundwater monitoring wells MW-3, MW-4, MW-6, and MW-7, as well as upgradient BP monitoring wells AMOCO, MW-1, and MW-5. Groundwater monitoring wells MW-3, MW-6, and MW-7 did not contain sufficient groundwater to sample during the 2014 sampling events. Groundwater monitoring well MW-4 was sampled quarterly for laboratory analysis.

2.1 WATER AND PRODUCT LEVEL MEASUREMENTS

Groundwater level monitoring included recording depth to groundwater measurements with a Keck oil/water interface probe. The presence of PSH was investigated using the interface probe. The interface probe was decontaminated with Alconox[™] soap and rinsed with de-ionized water prior to each measurement. These data are summarized in Table 1.

2.2 GROUNDWATER SAMPLING

Prior to sampling groundwater, depth to groundwater and total depth of groundwater monitoring well MW-4 was measured with a Keck oil/water interface probe. The volume of water in the monitoring well was calculated, and a minimum of three well casing volumes of water was purged from the monitoring well using a new disposable polyvinyl chloride (PVC) bailer. As water was removed from the monitoring well, pH, electric conductivity, and temperature were measured. Monitoring well MW-4 was purged until these properties stabilized, indicating the purge water was representative of aquifer conditions, or until the well was purged dry. Stabilization was defined as three consecutive stable readings for each water property (plus or minus (\pm) 0.4 units for pH, \pm 10 percent for electric conductivity, and \pm 2 degrees (°) Celsius for temperature). Purge water was containerized and disposed of at a facility designated by Williams. A copy of the field notes are presented in Appendix A.

Once the monitoring well was properly purged, groundwater samples were collected by filling three 40-milliliter (ml) glass vials. The laboratory-supplied vials were filled and capped with no air inside to prevent degradation of the sample. Samples were labeled with the date and time of collection, monitoring well designation, project name, collector's name, and parameters to be analyzed. They were immediately sealed and packed on ice. The samples were transferred to





Hall Environmental Analysis Laboratory (HEAL) for analysis. Samples were stored on ice in a sealed cooler and maintained under chain-of-custody (COC) procedures. COC forms were completed documenting the date and time sampled, sample number, type of sample, sampler's name, preservative used (if any), analyses required, and sampler's signature. HEAL analyzed the samples for BTEX according to United States Environmental Protection Agency Method 8021.

2.3 GROUNDWATER CONTOUR MAPS

LTE used top-of-casing well elevations and depth to groundwater measurements to calculate groundwater elevations and draft groundwater contours. The contours were used to determine groundwater flow direction for the March, June, September, and December 2014 quarterly monitoring events (Figures 2 through 5).

3.0 RESULTS

Monitoring wells MW-3, MW-6, and MW-7 were dry during 2014. Using water elevations determined from the remaining monitoring wells on site, groundwater flow direction was determined to be generally south-southwest. Measurable PSH was not detected in any monitoring wells in 2014. Groundwater elevations are included in Table 1.

Laboratory analytical results indicated BTEX concentrations in groundwater monitoring well MW-4 were compliant with the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards every quarter during 2014. Table 2 summarizes the groundwater analytical results and copies of the laboratory reports are included as Appendix B.

4.0 CONCLUSIONS

Groundwater in monitoring wells AMOCO and MW-1 are impacted, but are outside of Williams' area of responsibility. Within Williams' area of responsibility, the overall depth to groundwater at the Site has dropped to elevations that are below the total depths of most monitoring wells in the groundwater monitoring well network. BTEX concentrations in monitoring well MW-4 were compliant with NMWQCC groundwater standards all four quarters of 2014.

5.0 **RECOMMENDATIONS**

Williams proposes to continue to conduct quarterly monitoring for the presence of PSH and depth to groundwater in the seven monitoring wells including AMOCO, MW-1, and MW-5. When possible, quarterly groundwater samples will be collected from MW-3, MW-4, MW-6, and MW-7.



FIGURES





P:\Williams Four Corners\GIS\MXD\034013001_FLORANCE#40\034013001_FLORANCE_#40_FIG01_SL.mxd









P:\Williams Field Services\GIS\MXD\034013010_FLORANCE #40\034015003_FLORANCE_#40_FIG05_GWE_GWA_2014_Q4.mxd



GROUNDWATER ELEVATION SUMMARY FLORANCE #40 WILLIAMS FIELD SERVICES, LLC

| | | Top of Casing | Depth to | Depth to Product | Product Thickness | Groundwater |
|----------------------|------------|---------------|-------------|------------------|-------------------|-------------|
| Well ID | Date | Elevation | Groundwater | (feet BTOC) | (feet) | Elevation |
| | | (feet AMSL) | (feet BTOC) | (leet BTOC) | (leet) | (feet AMSL) |
| AMOCO | 1/3/2012 | 6,234.87 | UNK | UNK | UNK | UNK |
| AMOCO | 4/2/2012 | 6,234.87 | UNK | UNK | UNK | UNK |
| AMOCO | 6/13/2012 | 6,234.87 | UNK | UNK | UNK | UNK |
| AMOCO | 10/2/2012 | 6,234.87 | UNK | UNK | UNK | UNK |
| AMOCO | 12/6/2012 | 6,234.87 | UNK | UNK | UNK | UNK |
| AMOCO | 2/28/2013 | 6,234.87 | 61.27 | NP | NP | 6,173.60 |
| AMOCO | 6/24/2013 | 5,822.11* | 61.63 | NP | NP | 5,760.48 |
| AMOCO | 9/26/2013 | 5,822.11 | 61.64 | NP | NP | 5,760.47 |
| AMOCO | 12/6/2013 | 5,822.11 | 61.31 | NP | NP | 5,760.80 |
| AMOCO | 3/19/2014 | 5.822.11 | 61.36 | NP | NP | 5,760.75 |
| AMOCO | 6/12/2014 | 5.822.11 | 61.65 | NP | NP | 5,760.46 |
| AMOCO | 9/12/2014 | 5.822.11 | 61.73 | NP | NP | 5,760.38 |
| AMOCO | 12/4/2014 | 5 822 11 | 61.70 | NP | NP | 5 760 41 |
| 11.1000 | 12/ 1/2011 | 5,022.11 | 01.70 | 111 | 111 | 5,700.11 |
| MW-1 | 1/3/2012 | 6 231 60 | UNK | LINK | UNK | UNK |
| MW 1 | 4/2/2012 | 6 231 60 | UNK | | UNK | UNK |
| 1V1 VV - 1 MXX7 1 | 6/12/2012 | 6 231 60 | | | | UNIZ |
| IVI VV - 1 | 0/15/2012 | 6 221 60 | | | | |
| IVI W - I | 10/2/2012 | 0,231.00 | | | UNK | |
| MW-I | 12/0/2012 | 0,231.60 | UNK 45.02 | UNK 45.00 | UNK | UNK |
| MW-1** | 2/28/2013 | 6,231.60 | 45.92 | 45.90 | 0.02 | 6,185.70 |
| MW-1** | 6/24/2013 | 5,818.84* | 46.00 | NP | NP | 5,772.84 |
| MW-1** | 9/26/2013 | 5,818.84 | 45.35 | NP | NP | 5,773.49 |
| MW-1** | 12/6/2013 | 5,818.84 | 45.42 | 45.40 | 0.02 | 5,773.44 |
| MW-1 | 3/19/2014 | 5,818.84 | 45.43 | NP | NP | 5,773.41 |
| MW-1 | 6/12/2014 | 5,818.84 | 45.40 | NP | NP | 5,773.44 |
| MW-1 | 9/12/2014 | 5,818.84 | 45.46 | NP | NP | 5,773.38 |
| MW-1 | 12/4/2014 | 5,818.84 | DRY | DRY | DRY | DRY |
| | | | - | | | |
| MW-3 | 1/3/2012 | 6,219.05 | UNK | UNK | UNK | UNK |
| MW-3 | 4/2/2012 | 6,219.05 | UNK | UNK | UNK | UNK |
| MW-3 | 6/13/2012 | 6,219.05 | UNK | UNK | UNK | UNK |
| MW-3 | 10/2/2012 | 6,219.05 | UNK | UNK | UNK | UNK |
| MW-3 | 12/6/2012 | 6,219.05 | UNK | UNK | UNK | UNK |
| MW-3 | 2/28/2013 | 6,219.05 | DRY | DRY | DRY | DRY |
| MW-3 | 6/24/2013 | 5,806.34* | DRY | DRY | DRY | DRY |
| MW-3 | 9/26/2013 | 5,806.34 | DRY | DRY | DRY | DRY |
| MW-3 | 12/6/2013 | 5.806.34 | DRY | DRY | DRY | DRY |
| MW-3 | 3/19/2014 | 5.806.34 | DRY | DRY | DRY | DRY |
| MW-3 | 6/12/2014 | 5 806 34 | DRY | DRY | DRY | DRY |
| MW-3 | 9/12/2014 | 5 806 34 | DRY | DRY | DRY | DRY |
| MW-3 | 12/4/2014 | 5 806 34 | DRY | DRY | DRY | DRY |
| 11111 5 | 12/ 1/2011 | 5,000.51 | DIT | DRI | DRI | DICI |
| MW-4 | 1/3/2012 | 6 219 64 | UNK | LINK | IINK | UNK |
| MW 4 | 4/2/2012 | 6 210 64 | | LINK | LINK | LINK |
| 1V1 VV -4 MXV A | 6/12/2012 | 6 210 64 | | | | UNIZ |
| 1V1 VV -4 MXX7 A | 0/15/2012 | 6 210 64 | | | | |
| MW-4 | 10/2/2012 | 6,219.64 | UNK | UNK | UNK | UNK |
| MW-4 | 12/6/2012 | 0,219.64 | UNK | UNK | UNK | UNK |
| MW-4 | 2/28/2013 | 6,219.64 | 46.61 | 46.59 | 0.02 | 6,173.05 |
| MW-4 | 6/24/2013 | 5,806.56* | 46.72 | 46.71 | 0.01 | 5,759.85 |
| MW-4 | 9/26/2013 | 5,806.56 | 48.28 | 48.25 | 0.03 | 5,758.30 |
| MW-4 | 12/6/2013 | 5,806.56 | 48.44 | 48.42 | 0.02 | 5,758.14 |
| MW-4 | 3/19/2014 | 5,806.56 | 48.32 | NP | NP | 5,758.24 |
| MW-4 | 6/12/2014 | 5,806.56 | 48.64 | NP | NP | 5,757.92 |
| MW-4 | 9/12/2014 | 5,806.56 | 49.38 | NP | NP | 5,757.18 |
| MW-4 | 12/4/2014 | 5,806.56 | 49.71 | NP | NP | 5,756.85 |
| | | | | | | |
| MW-5 | 1/3/2012 | 6,228.57 | UNK | UNK | UNK | UNK |
| MW-5 | 4/2/2012 | 6,228.57 | UNK | UNK | UNK | UNK |
| | | | | | | |



GROUNDWATER ELEVATION SUMMARY FLORANCE #40 WILLIAMS FIELD SERVICES, LLC

| Well ID | Date | Top of Casing Elevation (feet AMSL) | Depth to Groundwater (feet BTOC) | Depth to Product (feet BTOC) | Product Thickness (feet) | Groundwater Elevation (feet AMSL) |
|---------|-----------|---|--|---------------------------------|------------------------------|---|
| MW-5 | 6/13/2012 | 6,228.57 | UNK | UNK | UNK | UNK |
| MW-5 | 10/2/2012 | 6,228.57 | UNK | UNK | UNK | UNK |
| MW-5 | 12/6/2012 | 6,228.57 | UNK | UNK | UNK | UNK |
| MW-5 | 2/28/2013 | 6,228.57 | 52.16 | NP | NP | 6,176.41 |
| MW-5 | 6/24/2013 | 5,815.74* | 52.12 | NP | NP | 5,763.62 |
| MW-5 | 9/26/2013 | 5,815.74 | 52.23 | NP | NP | 5,763.51 |
| MW-5 | 12/6/2013 | 5,815.74 | DRY | NP | NP | DRY |
| MW-5 | 3/19/2014 | 5,815.74 | 52.17 | NP | NP | 5,763.57 |
| MW-5 | 6/12/2014 | 5,815.74 | DRY | NP | NP | DRY |
| MW-5 | 9/12/2014 | 5,815.74 | 52.20 | NP | NP | 5,763.54 |
| MW-5 | 12/4/2014 | 5,815.74 | 52.20 | NP | NP | 5,763.54 |
| | | | | | | |
| MW-6 | 1/3/2012 | 6,221.28 | UNK | UNK | UNK | UNK |
| MW-6 | 4/2/2012 | 6,221.28 | UNK | UNK | UNK | UNK |
| MW-6 | 6/13/2012 | 6,221.28 | UNK | UNK | UNK | UNK |
| MW-6 | 10/2/2012 | 6,221.28 | UNK | UNK | UNK | UNK |
| MW-6 | 12/6/2012 | 6,221.28 | UNK | UNK | UNK | UNK |
| MW-6 | 3/6/2013 | 6,221.28 | DRY | DRY | DRY | DRY |
| MW-6 | 6/24/2013 | 5,808.50* | DRY | DRY | DRY | DRY |
| MW-6 | 9/26/2013 | 5,808.50 | 44.37 | NP | NP | 5,764.13 |
| MW-6 | 12/6/2013 | 5,808.50 | 44.39 | NP | NP | 5,764.11 |
| MW-6 | 3/19/2014 | 5,808.50 | DRY | DRY | DRY | DRY |
| MW-6 | 6/12/2014 | 5,808.50 | DRY | DRY | DRY | DRY |
| MW-6 | 9/12/2014 | 5,808.50 | DRY | DRY | DRY | DRY |
| MW-6 | 12/4/2014 | 5,808.50 | DRY | DRY | DRY | DRY |
| | | | | - | | |
| MW-7 | 1/3/2012 | 6,211.30 | UNK | UNK | UNK | UNK |
| MW-7 | 4/2/2012 | 6,211.30 | UNK | UNK | UNK | UNK |
| MW-7 | 6/13/2012 | 6,211.30 | UNK | UNK | UNK | UNK |
| MW-7 | 10/2/2012 | 6,211.30 | UNK | UNK | UNK | UNK |
| MW-7 | 12/6/2012 | 6,211.30 | UNK | UNK | UNK | UNK |
| MW-7 | 2/28/2013 | 6,211.30 | DRY | DRY | DRY | DRY |
| MW-7 | 6/24/2013 | 5,798.73* | DRY | DRY | DRY | DRY |
| MW-7 | 9/26/2013 | 5,798.73 | DRY | DRY | DRY | DRY |
| MW-7 | 12/6/2013 | 5,798.73 | DRY | DRY | DRY | DRY |
| MW-7 | 3/19/2014 | 5,798.73 | DRY | DRY | DRY | DRY |
| MW-7 | 6/12/2014 | 5,798.73 | DRY | DRY | DRY | DRY |
| MW-7 | 9/12/2014 | 5,798.73 | DRY | DRY | DRY | DRY |
| MW-7 | 9/12/2014 | 5,798.73 | DRY | DRY | DRY | DRY |
| MW-7 | 12/4/2014 | 5,798.73 | DRY | DRY | DRY | DRY |

Notes:

* Top of casing elevation was resurveyed on 6/20/13

** Product recovery sock was present in well

Groundwater elevation calculation in wells with product: (Top of Casing Elevation - Depth to Water) + (Product Thickness * 0.8)

AMSL - Above Mean Sea Level BTOC - Below Top of Casing DEST - well has been destroyed NP - No Product UNK - data is not known



| Well Name | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|------------------------|---------------|-------------------|-------------------|---------------------|----------------------|
| NMWQCC Sta | andard (µg/L) | 10 | 750 | 750 | 620 |
| AMOCO | 11/15/2000 | 966 | 64.4 | 1.070 | 12.700 |
| AMOCO | 1/22/2001 | 1.210 | 299 | 1.750 | 19.400 |
| AMOCO | 4/30/2001 | 1.080 | 71 | 1,030 | 11,600 |
| AMOCO | 10/16/2001 | 930 | 13 | 1,100 | 12,000 |
| AMOCO | 3/30/2002 | 610 | 790 | 1,100 | 13.000 |
| AMOCO | 6/16/2002 | 740 | ND | 3.400 | 22,000 |
| AMOCO | 12/13/2002 | 570 | ND | 670 | 8.400 |
| AMOCO | 12/3/2003 | 440 | <100 | 760 | 8.600 |
| AMOCO | 3/10/2004 | 200 | 56 | 430 | 7.400 |
| AMOCO | 6/27/2004 | 270 | 150 | 600 | 6.600 |
| AMOCO | 9/20/2004 | 210 | 61 | 430 | 3,900 |
| AMOCO | 12/6/2004 | 1.000 | 100 | 750 | 7,800 |
| AMOCO | 3/8/2005 | 330 | 94 | 730 | 5 900 |
| AMOCO | 11/30/2005 | 325 | 59.7 | 809 | 11 400 |
| AMOCO | 7/18/2006 | 375 | <20.0 | 1 100 | 9 010 |
| AMOCO | 3/27/2008 | 168 | <20.0 | 1,100 | 10 200 |
| AMOCO | 3/27/2008 | 183 | <25.0 | 3 920 | 11,200 |
| AMOCO | 6/4/2008 | 211 | <25.0 | 1 350 | 8 170 |
| AMOCO | 9/18/2008 | 160 | <50.0 | 2 110 | 17 500 |
| AMOCO | 12/5/2008 | 107 | <100 | 1 280 | 10,000 |
| AMOCO | 3/28/2009 | 134 | <100 | 1,200 | 15,900 |
| AMOCO | 7/8/2009 | 220 | <50.0 | 2 350 | 15,000 |
| AMOCO | 9/11/2009 | 133 | <100 | 2,330 | 20,700 |
| AMOCO | 12/20/2010 | 106 | <10.0 | 2,000 | 5 450 |
| AMOCO | 2/20/2019 | 100 | <10.0 | 023 | 5,450 |
| AMOCO | 6/22/2010 | 114 | <100 | 3 400 | 10 000 |
| AMOCO | 0/23/2010 | 110 | <23.0 | 2 080 | 19,000 |
| AMOCO | 9/10/2010 | 112 | <50.0 | 2,900 | 22,000 |
| AMOCO | 2/11/2011 | 78.1 | <30.0 | 1,/10 | 6 350 |
| AMOCO | 5/11/2011 | /0.1 | 23.3 | 1,130 | 0,550 |
| AMOCO | 0/14/2011 | <u> </u> | <10 | 670 | 14,200 |
| AMOCO | 9/12/2011 | /5.0 | <1.0 | 722 | 3,710 |
| AMOCO | 1/3/2012 | /3.8 | <5.0 | /32 | 3,380 |
| AMOCO | 4/2/2012 | NS | INS 20.5 | NS D((| INS |
| AMOCO | 6/13/2012 | 81.8 | 30.5 | 966 | 4,480 |
| AMOCO | 10/2/2012 | /1.0 | <5.0 | 881 | 4,320 |
| AMOCO | 2/28/2012 | 80.4 | <5.0 | 952 | 3,730 |
| AMOCO | 2/28/2013 | | <50 | 650 NG DD | 4,200 |
| AMOCO | 6/24/2013 | NS-BP | NS-BP | NS-BP | NS-BP |
| AMOCO | 9/26/2013 | NS-BP | NS-BP | NS-BP | NS-BP |
| AMOCO | 12/6/2013 | NS-BP | NS-BP | NS-BP | NS-BP |
| AMOCO | 3/19/2014 | NS-BP | NS-BP | NS-BP | NS-BP |
| AMOCO | 0/12/2014 | NS-BP | NS-BP | NS-BP | NS-BP |
| AMOCO | 9/12/2014 | NS-BP | NS-BP | NS-BP | NS-BP |
| АМОСО | 12/4/2014 | NS-BP | NS-BP | NS-BP | NS-BP |
| MW-1 | 1/2/1997 | 357 | 1 550 | 1.060 | 5 830 |
| MW 1 | 5/8/1007 | 357 | 1,550 | 1,000 | 3,030 |
| MW 1 | 8/13/1007 | 3,043 | 11,525 | 1,07/ | 16,003 |
| MX7 1 | 11/25/1007 | 3,033 | 14,700 | 1,100 | 10,171 |
| IVI VV - 1 MXX/ 1 | 1/22/1000 | 3,942 | 14,5/4 | 1,202 | 1/,508 |
| IVI VV - 1 MAXV - 1 | 1/23/1998 | 4,421 | 12,000 | 1,181 | 19,184 |
| IVI W - 1 | 4/20/1998 | 4,000 | 13,000 | 1,000 | 18,800 |
| IVI W - 1 | 8/ //1998 | 3,600 | 11,000 | 970 | 15,400 |



| Well Name | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|-------------|-------------|-------------------|-------------------|---------------------|----------------------|
| NMWQCC Stan | dard (µg/L) | 10 | 750 | 750 | 620 |
| MW-1 | 12/15/1998 | 3.800 | 7.200 | 670 | 17,900 |
| MW-1 | 2/9/1999 | 3.400 | 5.300 | 1.100 | 18,900 |
| MW-1 | 4/21/1999 | 3.500 | 3.500 | 810 | 16,500 |
| MW-1 | 7/28/1999 | 2.700 | 1,800 | 220 | 15,300 |
| MW-1 | 11/1/1999 | 3.200 | 1,100 | 910 | 17,600 |
| MW-1 | 7/13/2006 | 16 | 6 | <1.0 | 57 |
| MW-1 | 1/3/2012 | NS | NS | NS | NS |
| MW-1 | 4/2/2012 | NS | NS | NS | NS |
| MW-1 | 6/13/2012 | NS | NS | NS | NS |
| MW-1 | 10/2/2012 | NS | NS | NS | NS |
| MW-1 | 12/6/2012 | 1.670 | <10.0 | 1,300 | 995 |
| MW-1 | 2/28/2013 | NS-BP | NS-BP | NS-BP | NS-BP |
| MW-1 | 6/24/2013 | NS-BP | NS-BP | NS-BP | NS-BP |
| MW-1 | 9/12/2013 | NS-BP | NS-BP | NS-BP | NS-BP |
| MW-1 | 12/6/2013 | NS-BP | NS-BP | NS-BP | NS-BP |
| MW-1 | 3/19/2014 | NS-BP | NS-BP | NS-BP | NS-BP |
| MW-1 | 6/12/2014 | NS-BP | NS-BP | NS-BP | NS-BP |
| MW-1 | 9/12/2014 | NS-BP | NS-BP | NS-BP | NS-BP |
| MW-1 | 12/4/2014 | NS-BP | NS-BP | NS-BP | NS-BP |
| | | | | | |
| MW-3 | 2/6/1997 | 171.0 | 735 | 149 | 1,572 |
| MW-3 | 5/8/1997 | 97 | 27 | 115 | 302 |
| MW-3 | 11/1/1999 | 1,600 | 820 | 640 | 6,400 |
| MW-3 | 7/13/2006 | 57 | 6.3 | <1.0 | 8 |
| MW-3 | 1/3/2012 | NS | NS | NS | NS |
| MW-3 | 4/2/2012 | NS | NS | NS | NS |
| MW-3 | 6/13/2012 | NS | NS | NS | NS |
| MW-3 | 10/2/2012 | NS | NS | NS | NS |
| MW-3 | 12/6/2012 | NS | NS | NS | NS |
| MW-3 | 2/28/2013 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-3 | 6/24/2013 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-3 | 9/26/2013 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-3 | 12/6/2013 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-3 | 3/19/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-3 | 6/12/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-3 | 9/12/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-3 | 12/4/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| | | | | | |
| MW-4 | 5/8/1997 | < 0.2 | 0.3 | <0.2 | 0.5 |
| MW-4 | 8/13/1997 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-4 | 11/25/1997 | <0.2 | <0.2 | <0.2 | <0.4 |
| MW-4 | 1/23/1998 | < 0.2 | <0.2 | <0.2 | <0.4 |
| MW-4 | 11/15/2000 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-4 | 1/22/2001 | 15.1 | 46.1 | 14.7 | 306 |
| MW-4 | 4/30/2001 | 103 | 3.85 | 2.38 | 42.5 |
| MW-4 | 10/16/2001 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-4 | 3/30/2002 | 42 | 13 | 19 | 150 |
| MW-4 | 6/16/2002 | 56 | 32 | 68 | 470 |
| MW-4 | 9/25/2002 | 170 | 85 | 170 | 1,200 |
| MW-4 | 12/13/2002 | 130 | 39 | 180 | 990 |
| MW-4 | 3/8/2005 | 17 | 15 | 170 | 1,100 |
| MW-4 | 7/18/2006 | <20.0 | <20.0 | 230 | 1,640 |



| Well Name | Sample Date | Benzene Toluene (µg/L) (µg/L) | | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|------------------------|-------------------------|----------------------------------|----------------|---------------------|----------------------|
| NMWQCC Sta | andard (µg/L) | 10 | 750 | 750 | 620 |
| MW-4 | 3/27/2008 | <10.0 | <10.0 | 285 | 2.390 |
| MW-4 | 6/4/2008 | <1.0 | <10.0 | 232 | 1.830 |
| MW-4 | 9/18/2008 | <5.0 | 16.1 | 218 | 1,640 |
| MW-4 | 12/5/2008 | <5.0 | <5.0 | 55.6 | 410 |
| MW-4 | 3/28/2009 | < 5.0 | <5.0 | 111 | 732 |
| MW-4 | 7/8/2009 | 6.1 | <5.0 | 91.2 | 587 |
| MW-4 | 9/11/2009 | <1.0 | <1.0 | 39.9 | 199 |
| MW-4 | 12/20/2009 | <1.0 | <1.0 | 28.1 | 145 |
| MW-4 | 3/29/2010 | <5.0 | 7 1 | 65.5 | 360 |
| MW-4 | 6/23/2010 | <5.0 | <5.0 | 70.1 | 439 |
| MW-4 | 9/10/2010 | <1.0 | <1.0 | 11.8 | 110 |
| MW-4 | 12/4/2010 | <5.0 | <5.0 | 15.8 | 152 |
| MW-4 | 3/11/2011 | <5.0 | <5.0 | 18.1 | 167 |
| MW-4 | 6/14/2011 | <1.0 | <1.0 | 4 9 | 33.3 |
| MW-4 | 9/12/2011 | <1.0 | <1.0 | <1.0 | 79 |
| MW-4 | 1/3/2012 | <1.0 | <1.0 | <1.0 | 3.6 |
| MW-4 | 4/2/2012 | NS | NS | NS | NS |
| MW-4 | 6/13/2012 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-4 | 10/2/2012 | <5.0 | <5.0 | <5.0 | <15.0 |
| | 12/6/2012 | < 1.0 | <1.0 | <1.0 | <13.0 |
| MW 4 | 2/28/2012 | NSP | NSP | NSP | NSP |
| MW 4 | 6/24/2013 | NSP | NSP | NSP | NSP |
| MW 4 | 0/24/2013 | NS IW | | NS IW | INSE NSE IW |
| MW 4 | 9/20/2013 | NSD | NSD | NSD | NSD |
| MW 4 | 2/10/2013 | -1 0 | 10 10 | 2.0 | 12 |
| MW 4 | 6/12/2014 | <1.0 | <1.0 | 3.9 | 7.2 |
| MW 4 | 0/12/2014 | <2.0 | <2.0 | <2.0 | 57 |
| MW 4 | 9/12/2014 | <1.0 | <1.0 | <1.0 | 5.7 |
| IVI VV -4 | 12/4/2014 | <2.0 | <2.0 | <2.0 | 3.2 |
| MW 5 | 5/8/1007 | <2.0 | 0.3 | <0.2 | 0.4 |
| | 8/13/1997 | 3.683 | 12 730 | 1 1/3 | 16.086 |
| MW 5 | 11/25/1997 | 3,083 | <0.2 | -0.2 | <0.4 |
| MW 5 | 1/23/1997 | <0.2 4 200 | 14 477 | 1 120 | 18 281 |
| MW 5 | 2/0/1000 | 4,299 | 14,477 | 1,120 | 10,201 |
| MW 5 | 4/21/1000 | 3,500 | 3,100 | 700 | 17,700 |
| MW 5 | 2/21/2000 | 730 | 3,400 | 1 200 | 10,400 |
| MW 5 | 6/14/2000 | 800 | 220 | 080 | 5 800 |
| MW 5 | 0/14/2000 | 053 | 55 65 | 1 600 | 5,690 8,010 |
| MW 5 | 1/22/2001 | 953 | 05 | 1,000 | 0,010 7,530 |
| MW 5 | 4/20/2001 | 010 873 | 124 | 1,390 | /,530 |
| IVI VV - J MAX/ - 5 | 4/30/2001 | 0/3 | 124 | 1,430 | 9,520 |
| 1VI VV - 3 MW/ 5 | 3/30/2001 | 250 | 10 | 1,300 540 | 0,000 |
| IVI W-5 | 5/30/2002 | 350 | 12 ND | 200 | 440 |
| IVI VV - 3 | 0/10/2002 | 250 | 15 | 290 | 220 |
| IVI VV - J | 3/23/2002 12/12/2002 | 200 | | 110 | 330 |
| IVI VV - J MAX/ - 5 | 7/12/2002 | 200 | ND Q | 40 | 150 |
| IVI W-3 | 1/2/2000 | <u> </u> | ð <1.0 | <1.0 | 45 |
| IVI W-5 | 1/3/2012 | <1.0 NC | <1.0 NC | <1.0 NC | 3.0 NC |
| IVI W - 3 | 4/2/2012 | -10 | 110 | 1N3 | 110 |
| IVI W-5 | 0/13/2012 | <1.0 | <1.0 | <1.0 | < 3.0 |
| IVI W-5 | 10/2/2012 | < 3.0 | < 3.0 | < 3.0 | <15.0 |
| IVI W - 3 | 2/28/2012 | <1.0 NC 110 | <1.0 NC 110 | <1.0 NC 100 | <3.0 NO 1117 |
| IVI W-D | 2/20/2013 | 1ND-1W | 1ND-1W | 1ND-1W | IND-1W |



| Well Name | Well NameSample DateBenzene (µg/L)Toluene (µg/L) | | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | |
|------------|--|--------------|---------------------|----------------------|-------------|
| NMWQCC Sta | ndard (µg/L) | 10 | 750 | 750 | 620 |
| MW-5 | 6/24/2013 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-5 | 9/26/2013 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-5 | 12/6/2013 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-5 | 3/19/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-5 | 6/12/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-5 | 6/12/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-5 | 9/12/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-5 | 12/4/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| 10100-5 | 12/4/2014 | 115-110 | 115-117 | 110-110 | 110-117 |
| MW-6 | 3/21/2000 | 4 200 | 12,000 | 1 300 | 15 200 |
| MW-6 | 6/14/2000 | 4,200 | 12,000 | 1,300 | 15,200 |
| MW 6 | 7/13/2006 | 705 | 1 490 | 285 | 2 450 |
| MW 6 | 2/27/2008 | 3 670 | 1,400 | 1 210 | 2,430 |
| MW 6 | 6/4/2008 | 2 380 | 2,130 | 580 | 11,000 |
| MW 6 | 0/4/2008 | 2,380 | 278 | 1 200 | 18 100 |
| MW 6 | 12/5/2008 | 3,000 | 85.3 | 828 | 10,100 |
| MW 6 | 3/28/2009 | 1,380 | 05 | 886 | 15 300 |
| MW 6 | 9/11/2009 | 1,790 | 95 | 523 | 3 580 |
| MW 6 | 6/23/2010 | 1,200 815 | 75.3 | 32.3 | 3,000 |
| MW 6 | 0/23/2010 | 674 | 120 | 28.7 | 3,090 |
| MW 6 | 1/3/2012 | NS | NS | 20.7 NS | 4,010 NS |
| MW 6 | 4/2/2012 | 967 | 28 | 700 | 4 240 |
| MW 6 | 6/12/2012 | 00.7 NS | 20 NS | 799 NS | 4,240 NS |
| MW 6 | 0/13/2012 | NS | NS | NS | NS |
| MW 6 | 12/6/2012 | NS | NS | NS | NS |
| MW 6 | 3/6/2012 | | NS IW | NS IW | NS IW |
| MW 6 | 6/24/2013 | NS IW | NS IW | NS IW | NS IW |
| MW 6 | 0/24/2013 | NS IW | NS IW | NS IW | NS IW |
| MW 6 | 12/6/2013 | NS IW | NS IW | NS IW | NS IW |
| MW 6 | 3/10/2013 | NS IW | NS IW | NS IW | NS IW |
| MW-6 | 6/12/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-6 | 6/12/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-6 | 9/12/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-6 | 12/4/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| 1111 0 | 12/4/2014 | 115 117 | 1010 | 115 117 | 115 117 |
| MW-7 | 3/21/2000 | <0.5 | <0.5 | <0.5 | 59 |
| MW-7 | 6/14/2000 | <0.5 | <0.5 | <0.5 | <1.5 |
| MW-7 | 11/15/2000 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | 1/22/2001 | <1.0 | 5.79 | 1.51 | 42.4 |
| MW-7 | 4/30/2001 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | 10/16/2001 | <1.0 | <2.0 | <2.0 | 3.2 |
| MW-7 | 12/3/2003 | <2.0 | <2.0 | <2.0 | <5.0 |
| MW-7 | 3/10/2004 | ND | ND | ND | ND |
| MW-7 | 6/27/2004 | ND | ND | ND | ND |
| MW-7 | 9/20/2004 | ND | ND | ND | ND |
| MW-7 | 12/6/2004 | <2.0 | <2.0 | <2.0 | <5.0 |
| MW-7 | 3/8/2005 | <2.0 | <2.0 | <2.0 | 5.7 |
| MW-7 | 6/19/2005 | <2.0 | <2.0 | <2.0 | <5.0 |
| MW-7 | 9/15/2005 | <2.0 | <2.0 | <2.0 | <5.0 |
| MW-7 | 11/30/2005 | <2.0 | <2.0 | <2.0 | <5.0 |
| MW-7 | 7/13/2006 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 3/27/2008 | <1.0 | <1.0 | <1.0 | <3.0 |



GROUNDWATER LABORATORY ANALYTICAL RESULTS FLORANCE #40 WILLIAMS FIELD SERVICES, LLC

| Well Name | Sample Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|------------|---------------|-------------------|-------------------|---------------------|----------------------|
| NMWQCC Sta | andard (µg/L) | 10 | 750 | 750 | 620 |
| MW-7 | 6/4/2008 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 9/18/2008 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 12/5/2008 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 3/28/2009 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 7/8/2009 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 9/11/2009 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 12/20/2009 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 3/29/2010 | <5.0 | <5.0 | <5.0 | <15.0 |
| MW-7 | 6/23/2010 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 9/10/2010 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 12/4/2010 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 3/11/2011 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 6/14/2011 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 9/12/2011 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 1/3/2012 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 4/2/2012 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 6/13/2012 | NS | NS | NS | NS |
| MW-7 | 10/2/2012 | NS | NS | NS | NS |
| MW-7 | 12/6/2012 | NS | NS | NS | NS |
| MW-7 | 2/28/2013 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-7 | 6/24/2013 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-7 | 9/26/2013 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-7 | 12/6/2013 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-7 | 3/19/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-7 | 6/12/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-7 | 9/12/2014 | NS-IW | NS-IW | NS-IW | NS-IW |
| MW-7 | 12/4/2014 | NS-IW | NS-IW | NS-IW | NS-IW |

Notes:

Bold - indicates sample exceeds NMWQCC standard

< - indicates result is less than laboratory reporting detection limit

 μ g/L - micrograms per liter

ND - Analyte not detected

NMWQCC - New Mexico Water Quality Control Commission

NS - Not sampled

NS- BP - not sampled, monitoring well is BP's responsiblility

NS-IW - Not sampled - Insufficient water

NSP - not sampled due to the presence of free phase hydrocarbons in the well



APPENDIX A

2014 QUARTERLY FIELD NOTES



| | | | Water Sa | mple Coll | ection Form | · · · · · · · · · · · · · · · · · · · | |
|-------------|---------------|------------------------|-------------------|---|------------------|---------------------------------------|--|
| Sample Loc | ation | Florance 40 |) | Client Williams Field Services | | | |
| Sample Dat | e | 3/19/14 | | Project Name San Juan Basin Remediation | | | |
| Sample Time | | NI | 'A | | Project # | 034013010 | |
| Sample ID | | MW-3 | | | Sampler | Daniel Narman | |
| Analyses | | BTEX 8021 | | | | · | |
| Matrix | | Groundwat | er | | Laboratory | Hall Environmental | |
| Turn Aroun | d Time | Standard | | Ship | oping Method | Hand delivery | |
| Depth to W | 'ater | DRY | | | TD of Well | 40,11 | |
| Time | | 1000' | | Dep | th to Product | N/A | |
| Vol. of H2O | to purge | DRY | | | | | |
| | | (height | of water colu | ımn * 0.16 | 31 for 2" well o | or 0.6524 for 4" well) * 3 well vols | |
| Method of | Purging | -PVC-Bailer | -DN | NONE | ` | | |
| Method of | Sampling 🗂 | PVC Bailer | <u> </u> | NONE | | | |
| | 1 | Total Vol | | | | | |
| | Vol. | H2O | | - | Canalyzativity | | |
| T ' | Removed | removed | pH (std.units) | Temp. | Conductivity | Comments | |
| Time | (gai.) | (gai.) | (sta. umis) | (4 | | connens | |
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| Signature | | | <u> </u> | | _Date: | DIULIA | |
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| Comple Loc | otion | Eloranco 4(| h | | Client Williams Field Services | | | | |
|-------------|---------------------|--------------------|---|---|--------------------------------|---|--|--|--|
| Sample Lot | | | <u>، </u> | - | Droject Name | San Juan Basin Remediation | | | |
| Sample Dat | | INRO | | - | Project # 034013010 | | | | |
| Sample III | | - KTINH-EPT N | Vial - 4 | - | Sampler Devolet NPLA in QN | | | | |
| | | | 100 | - | Jampier | , and baselines (| | | |
| Matrix | | Groundwat | tor | | Laboratory Hall Environmental | | | | |
| | d Time | Standard | | - Shin | ning Method | Hand delivery | | | |
| Dooth to M | lu mile lator | <u>uos</u> | | - 51116 | TD of Well | SS DC | | | |
| Time | , aler | <u>020</u> | | - Don | th to Product | <u></u> | | | |
| Time | | -120 | 1000 1 | | 1/21 | <u></u> | | | |
| Vol. of H2C |) to purge | <u>>>,06</u> | <u>40, 32 2 (</u> | 0.1470 | $\frac{100}{100} = 1.01$ | 1) -), 2 1 or 0 6524 for 4" well) * 2 well yels | | | |
| Matha daf | Duration | (neight | oj water coi | umn · 0.163 | SI JUI Z Wen | 01 0.0324 j01 4 Welly 5 Well Vols | | | |
| | Purging | PVC Baller | | | | ······································ | | | |
| Method of | Sampling | PVC Baller | | | | | | | |
| | Vol | Total Vol | | | | | | | |
| | Removed | H2U removed | на | Temp. | | | | | |
| Time | (gal.) | (gal.) | (std. units) | (grF | (us or (ms) | Comments | | | |
| 930 | 0,25 | 025 | 657 | 62.6 | 4.15 | dear, doudy, no odo G, no scheen | | | |
| | Cas | (),50 | 6.75 | 63.0 | 4,27 | cloudy, life brown sedment, No scheen | | | |
| | Oas | 0.75 | 6.79 | 62.8 | 4.13 | Pochange | | | |
| | 025 | 1.00 | 6.81 | 63.0 | 411 | strand odor (laudy, brann, sediment- | | | |
| 955 | 0.0 | 1.10 | 6.85 | 63.0 | 4.13 | gray lits of sed. Il oder, builing dry | | | |
| | - 00- | | | | | | | | |
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| Came | back | -ter L | rell s | Sami | ned (a) | 1030 STILL VOFF | | | |
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| Describe De | eviations fro | om SOP; | WAS | unable | to Porc | res casings volumoj | | | |
| | / | | | betwee | . well bui | led dry | | | |
| Signatura | $\overline{\gamma}$ | | | والمستعدي المراجع المفار والمتراجع والمتراجع والمراجع | Date: | stialize | | | |
| Signature | ·A | mff | | | | | | | |
| / | | <u> </u> | | . <u>.</u> | | | | | |

| Water Sample Collection Form | | | | | | | | | |
|------------------------------|---------------|----------------------|-------------------|----------------------------|---|--|--|--|--|
| Sample Loc | ation | Florance 40 |) , | | Client | Williams Field Services | | | |
| Sample Dat | te | 310 | rlia | • | Project Name San Juan Basin Remediation | | | | |
| Sample Tim | ne | NIA | | | Project # | 034013010 | | | |
| Sample ID | | TVIVV=4 M | N-5 | | Sampler | Daniel Nermen | | | |
| Analyses | | BTEX 8021 | | | | | | | |
| Matrix | | Groundwat | er | | Laboratory | Hall Environmental | | | |
| Turn Aroun | d Time | Standard | | Shir | oping Method | Hand delivery | | | |
| Depth to W | /ater | 52.17 | | | TD of Well | 52,24 | | | |
| Time | | 910 | | . Dep | th to Product | N/A | | | |
| Vol. of H2O | to purge | NIA | | | | | | | |
| | | (height | of water col | umn * 0 <mark>.</mark> 16. | 31 for 2" well (| or 0.6524 for 4" well) * 3 well vols | | | |
| Method of | Purging - | PVC-Bailer- | - N/A | | | | | | |
| Method of | Sampling 🚽 | < <u> PVC-Bailer</u> | - N/A | · | | | | | |
| | | Total Vol | | | | | | | |
| | Vol. | H2O | | T | Canalyzativity | | | | |
| Time | Removed | removed | pH (std.units) | (C) | | Comments | | | |
| Time | (gai.) | (gai.) | | (0) | | | | | |
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| Signature | : X | 5// | λ_{-} | <u> </u> | Date: | 3/19/14 | | | |
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| Water Sample Collection Form | | | | | | | | | | |
|---|-----------------|-------------------|--------------|-------------|--|---------------------------------------|--|--|--|--|
| Sample Location Florence 140 Client Williams Field Services | | | | | | | | | | |
| Sample Dat | te | $\frac{1}{2}$ | 2114 2114 | - F | Project Name | San Juan Basin Remediation | | | | |
| Sample Tin | ne | 120 | 0 | - | Project # | 034013010 | | | | |
| Sample ID | | MIKI | -4 | | Sampler | Sterb | | | | |
| Analyses | | BTEX 8021 | | - | | | | | | |
| Matrix | | Groundwat | ter | | Laboratory | Hall Environmental | | | | |
| Turn Aroun | nd Time | Standard | | Ship | ping Method | Hand delivery | | | | |
| Depth to W | /ater | 48.6 | <u>Ч</u> | - | TD of Well | 55.04 | | | | |
| Time | | 11:1 | 5 | . Dep | th to Product | NA | | | | |
| Vol. of H2C |) to purge | 6.42 |) X.163 | 3/=1.0 | 47-x3 | = 3.14 | | | | |
| | | (height | of water col | umn * 0.163 | 81 for 2" well | or 0.6524 for 4" well) * 3 well vois | | | | |
| Method of | Purging | PVC Bailer | | | | | | | | |
| Method of | Sampling | PVC Bailer | | | | | | | | |
| · · · · · · | | Total Vol | | 1 | | | | | | |
| | Vol. | H2O | 24 | Temn | Conductivity | | | | | |
| Time | (gal.) | (gal.) | (std. units) | BHIEF | (us or ms) | Comments | | | | |
| 1135 | (2.25 | 0.25 | 1.40 | 76.3 | 4.34 | clear no sediment, hooder | | | | |
| 1.50 | 12 25 | 6,50 | Ca.51 | 46.6 | 4.21 | no change | | | | |
| | 0.25 | 0.75 | 10.50 | 06-4 | 4.29 | yery stight light yellowhere | | | | |
| | 6-25 | [.00 | 6.55 | 67.1 | 4.20 | no chang | | | | |
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| Comments | : Baile | d dry | after | 1 agal | on (| vasable to hill | | | | |
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| Signature | • <u> </u> | XX |) | | | | | | | |
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| Water Sample Collection Form | | | | | | | | | |
|------------------------------|---|-------------|-------------------|-------------|---|--------------------------------------|--|--|--|
| Sample Loc | ation | Florance 40 |) | | Client | Williams Field Services | | | |
| Sample Dat | e | 3/10/ | (Q | - | Project Name San Juan Basin Remediation | | | | |
| Sample Tim | ne | NA | | - | Project # | 034013010 | | | |
| Sample ID | | MW-6 | | • | Sampler | Daniel Neuman_ | | | |
| Analyses | | BTEX 8021 | | • | | | | | |
| Matrix | | Groundwat | ter | | Laboratory Hall Environmental | | | | |
| Turn Aroun | d Time | Standard | | Ship | ping Method | Hand delivery | | | |
| Depth to W | 'ater | DRY | <u>.</u> | | TD of Well | 4135 | | | |
| Time | | 1015 | | . Dep | th to Product | N/A | | | |
| Vol. of H2O | to purge | NA | | | | | | | |
| | | (height | of water col | umn * 0.163 | B1 for 2" well o | or 0.6524 for 4" well) * 3 well vols | | | |
| Method of | Purging 🗕 | PVC-Bailer, | DN N | <u>NONB</u> | | | | | |
| Method of | Sampling | PVC Bailer- | pn I | NONB | | | | | |
| | | Total Vol | | | | | | | |
| | Vol. | H2O | | - | | | | | |
| Time | (gal) | removed | pH (std_units) | (C) | (us or ms) | Comments | | | |
| 111110 | (gai.) | (gai./ | | | (us or ms) | connents | | | |
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| Describe De | viations fro | m SOP: | N/A | | | | | | |
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| Signature | | Xa | | | Date: | 3/19/14 | | | |
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| | | | Water Sa | mple Coll | ection Form | | | | | |
|-------------|---------------|-------------------|--------------|--|---------------------------------------|--------------------------------------|--|--|--|--|
| Sample Loc | ation | Florance #4 | 40 | | Client | Williams Field Services | | | | |
| Sample Dat | te | 9/12, | 114 | Project Name San Juan Basin Remediation | | | | | | |
| Sample Tim | ne | N/H | 1 | - | Project # | 034013010 | | | | |
| Sample ID | | MW-3 | | | Sampler | Alex Crooks | | | | |
| Analyses | | BTEX 8021 | | | | | | | | |
| Matrix | | Groundwat | ter | - | Laboratory | Hall Environmental | | | | |
| Turn Aroun | d Time | Standard | | Ship | ping Method | Hand delivery | | | | |
| Depth to W | /ater | DN | | - | TD of Well | 40.11 | | | | |
| Time | | 833 | | . Dep | th to Product | NIA | | | | |
| Vol. of H2O | to purge | Dre | | | | · | | | | |
| | | (height | of water col | umn * 0.16 | B1 for 2" well o | or 0.6524 for 4" well) * 3 well vols | | | | |
| Method of | Purging | PVC Bailer | | | | | | | | |
| Method of | Sampling | PVC Bailer | | | | | | | | |
| | | Total Vol | | | | | | | | |
| | Vol. | H2O | | Tomm | Conductivity | | | | | |
| Time | (gal) | removed (gal.) | (std. units) | (C) | (us or ms) | Comments | | | | |
| | (50) | (841) | (Star units) | (•/ | | | | | | |
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| Describe De | eviations fro | om SOP: | NH | | | | | | | |
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| Signatura | ./ a/a | | M | | Date | 9/10/14 | | | | |
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| | | | Water Sc | ample Coll | ection Form | 2 | |
| ample Loc | ation | Florance #4 | 40 | | Client | Williams Field Services | |
| ample Dat | ė | 9/12/ | 14 | _ • | Proiect Name | San Juan Basin Remediation | |
| ample Tim | e | 0945 | | • | Proiect # | -034013010 | State State |
| ample ID | | MW-4 | | • | Sampler | Alex Crooks | |
| nalyses | | BTEX 8021 | | • 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | | | 4 |
| latrix | | Groundwat | er | ÷. | Laboratory | Hall Environmental | - <u>7</u> |
| urn Aroun | d Time | Standard | ····· | - Ship | ping Method | Hand delivery | |
| epth to W | ater | 49.38 | • | - | TD of Well | 55.06 | 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. |
| me | - 1 | 0915 | | Dep | th to Product | NA | |
| ol. of H2O | to purge | 5506- | 49.78- | 5.68x. | 1631= . | 92×3=2.781 | |
| | 10 00.80 | (height | of water col | umn * 0.163 | B1 for 2" well | or 0.6524 for 4" well) * 3 well | vols |
| lethod of I | Purging | PVC Bailer | | | , | , , , , , , , , , , , , , , , , , , , | |
| lethod of S | Sampling | PVC Bailer | | | | · · · · · · · · · · · · · · · · · · · | an in |
| : | | Total Vol | | | | | |
| يني. د | Vol. | H2O | | _ | | | |
| Time | Removed | removed | pH | Temp. | Conductivity | Common to | |
| 1111e 1918 | (gal.) | (gal.) | | 106 2 | us or ms | Comments | 1 |
| 09.20 | 10 | · C) | 10:01 | 10100 | 1.00 | Mary Mart Su | 1/200 |
| 0972 | 105 | 40 | 1.02 | 10/0.2 | 195 | Clear I Cloury Olly | jntoci |
| 09115 | 863 | - 15 | (2.4.5 | UN C | / . / 3 | Water well going any | |
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| ecribe De | viations fro | | Carrie | ala I ha | Gas the | no 10.011 17. lenn n | |
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| | | | Water Sa | mple Coll | ection Form | 2 | | | |
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| Sample Lo | cation | Floraņce #4 | 10 | | Client Williams Field Services | | | | |
| Sample Da | te | 9/12/14 | | Project Name San Juan Basin Remediation | | | | | |
| Sample Tin | ne | NIA | | | Project # | 034013010 | | | |
| Sample ID | | MW-5 | | | Sampler | Alex Crooks | | | |
| Analyses | | BTEX 8021 | | | | | | | |
| Matrix | | Groundwat | er | | Laboratory | Hall Environmental | | | |
| Turn Arour | nd Time | Standard | | Ship | ping Method | Hand delivery | | | |
| Depth to V | /ater | -DAL . | 52.20 | | TD of Well | 52.24 | | | |
| Time | | 0705 | | Dep | th to Product | | | | |
| Vol. of H2C |) to purge | NOI 21 | novgh 1 | valer | | | | | |
| · · | | (height | of water col | umn * 0.163 | B1 for 2" well | or 0.6524 for 4" well) * 3 well vols | | | |
| Method of | Purging | PVC Bailer | | | | | | | |
| Method of | Sampling | PVC Bailer | | | | | | | |
| | | Total Vol | | | | | | | |
| | Vol. | H2O | | | | | | | |
| T : | Removed | removed | рН | Temp. | Conductivity | Comments . | | | |
| Time | (gal.) | (gal.) | (std. units) | (C) | (us or ms) | Comments | | | |
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| Describe De | eviations fro | m SOP: | NIA | <u> </u> | | | | | |
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| Signature | : (K | Klar | (Rezk | 2 | Date: | 9/12/14 | | | |
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| Water Sample Collection Form | | | | | | | | | | |
|------------------------------|-------------------------|-------------|--------------|---|-----------------|--------------------------------------|--|--|--|--|
| Sample Loca | ition | Florance #4 | 10 | Client Williams Field Services | | | | | | |
| Sample Date | 9 | 9/12/ | 14 | Project Name San Juan Basin Remediation | | | | | | |
| Sample Time | 9 | N/H | | | Project # | 034013010 | | | | |
| Sample ID | | MW-6 | | | Sampler | Alex Crooks | | | | |
| Analyses | | BTEX 8021 | | | | ····· | | | | |
| Matrix | | Groundwat | er | | Laboratory | Hall Environmental | | | | |
| Turn Around | l Time | Standard | <u></u> | Ship | ping Method | Hand delivery | | | | |
| Depth to Wa | ater | Dry | | | TD of Well | 44.35 | | | | |
| Time | | 0845 | | Dep | th to Product | N/H | | | | |
| Vol. of H2O t | to purge | DM | | | | | | | | |
| | | (height | of water col | umn * 0.163 | 1 for 2" well o | or 0.6524 for 4" well) * 3 well vols | | | | |
| Method of P | urging | PVC Bailer | PVC Bailer | | | | | | | |
| Method of S | ampling | PVC Bailer | | | | | | | | |
| | | Total Vol | | | | | | | | |
| | VOI. Removed | H2O | nH | Temn | Conductivity | | | | | |
| Time | (gal.) | (gal.) | (std. units) | (C) | (us or ms) | Comments | | | | |
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| Describe Dev | viations fro | m SOP: | NIA | | | | | | | |
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| Water Sample Collection Form | | | | | | | | | | |
|------------------------------|-------------------|---|---------------------------------------|-------------------------|---------------------------------------|--|--|--|--|--|
| Sample Location | Florance #4 | 10 | | Williams Field Services | | | | | | |
| Sample Date | 12/14 | 114 | Project Name San | | San Juan Basin Remediation | | | | | |
| Sample Time | NA | 4 | | Project # | 034013010 | | | | | |
| Sample ID | MW-3 | | | Sampler | Daniel Newman Ac | | | | | |
| Analyses | BTEX 8021 | | | | | | | | | |
| Matrix | Groundwat | er | | Laboratory | Hall Environmental | | | | | |
| Turn Around Time | Standard | | Ship | ping Method | Christine | | | | | |
| Depth to Water | DM | | | TD of Well | 46.11 | | | | | |
| Time | 0840 | | Dep | th to Product | MA | | | | | |
| Vol. of H2O to purge | MA | | | | | | | | | |
| | (height | (height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols | | | | | | | | |
| Method of Purging | PVC Bailer | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| Method of Sampling | PVC Bailer | | | | | | | | | |
| | Total Vol | T | | | | | | | | |
| Vol. | H2O | | T | Conductivity | | | | | | |
| Time (gal) | removed | pH (std_units) | (C) | (us or ms) | Comments | | | | | |
| (gail) | (6011) | (See ane) | | (40 01 110) | | | | | | |
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| Describe Deviations f | rom SOP: | NOL | INNIG | ih wate | for Sample | | | | | |
| / | 7. | | | | <u> </u> | | | | | |
| | 11-17 | | | <u> </u> | | | | | | |
| Signature: | NO VIE | val- | | _Date: | 12/4/14 | | | | | |
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|-------------|---------------|-------------------|---------------|---|--|---|--|--|
| Sample Loca | ation | Florance #4 | 0 | | Client _ | Williams Field Services | | |
| Sample Date | ē | 12/4/14 | / | Project Name San Juan Basin Remediation | | | | |
| Sample Time | е | MA | | | Project # _ | 034013010 | | |
| Sample ID | | MW-6 | | | Sampler_ | Daniel Newman AZ | | |
| Analyses | | BTEX 8021 | | | | | | |
| Matrix | | Groundwate | er ` | Laboratory Hall Environmental | | | | |
| Turn Around | d Time | Standard | | Ship | ping Method | Christine | | |
| Depth to Wa | ater | DY | | | TD of Well | 44.35 | | |
| Time | | 0830 | | Depi | th to Product | | | |
| Vol. of H2O | to purge | MA | | | | | | |
| | | (height | of water colu | ımn * 0.163 | B1 for 2" well c | or 0.6524 for 4" well) * 3 well vols | | |
| Method of I | Purging | PVC Bailer | | | | | | |
| Method of S | Sampling | PVC Bailer | | | | · · · · · · · · · · · · · · · · · · · | | |
| _ | | Total Vol | T | | <u> </u> | | | |
| | Vol. | H2O | <i>.</i> | | | | | |
| | Removed | removed | рН | Temp. | Conductivity | Commente | | |
| Time | (gal.) | (gal.) | (std. units) | (C) | (us or ms) | Comments | | |
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| Comments | : N/I | 7 | | | · _ | | | |
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| Signature | e: () | ex 1 th | ook | | Date: | 1214/14 | | |
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| | Water Sumple Concetion Form | | | | | | | | | |
|--------------|------------------------------|-------------------|---------------|--------------|---------------|--------------------------------------|--|--|--|--|
| Sample Loca | Sample Location Florance #40 | | | | Client | Williams Field Services | | | | |
| Sample Date | 2 | 12/4/14 | | Project Name | | San Juan Basin Remediation | | | | |
| Sample Time | 3 | 0920 | | | Project # | 034013010 | | | | |
| Sample ID | • | MW-4 | | | Sampler | Daniel Newman Ac | | | | |
| Analyses | | BTEX 8021 | | | | | | | | |
| Matrix | | Groundwate | er ` | | Laboratory | Hall Environmental | | | | |
| Turn Around | d Time | Standard | | Ship | ping Method | Christine | | | | |
| Depth to Wa | ater | 49.71 | | | TD of Well | 55.06 | | | | |
| Time | | 0845 | | Dept | h to Product | <i>N</i> /H | | | | |
| Vol. of H2O | to purge | 55.06-1 | 19.71 = | 5.35 X | .1631= | .87×3=2.62 | | | | |
| | · · · · · · · · · · | (height d | of water colu | umn * 0.163 | 1 for 2" well | or 0.6524 for 4" well) * 3 well vols | | | | |
| Method of F | Purging | PVC Bailer | | | | | | | | |
| Method of S | Sampling | PVC Bailer | | | | | | | | |
| I | | Total Vol | | | · | | | | | |
| | Vol. | H2O | | · . | | | | | | |
| | Removed | removed | рН | Temp. | Conductivity | Comments | | | | |
| Time | (gal.) | (gal.) | (std. units) | Leff | (us or msr | Pland ador Inatilinden | | | | |
| 0052 | 125 | 125 | 6.47 | 62.8 | | and adar Sha Hur had | | | | |
| 0857 | .40 | <u>·65</u> | 0.57 | 0511 | 1.69 | Diwing Odor I Shen TIG Close | | | | |
| <u>1859</u> | ,10 | 075 | 6.52 | 000 | 1.62 | Blacer ov regover - | | | | |
| 0902 | | | | | | This Sam 21 | | | | |
| 0920 | | | | | | Tove Sample | | | | |
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| (and | pacu st | TOUR | Samp | y ar | -120 | | | | | |
| Signature | e: // | WX / | J. Ook | | Date: | 12/14/14 | | | | |
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|-------------|--------------|-----------------|-------------------|--|--|--------------------------------------|
| Sample Loca | ation | Florance #4 | 0 | | Client | Williams Field Services |
| Sample Date | 9 | 12/4 | 714 | Project Name San Juan Basin Remediation | | |
| Sample Tim | e | NA | | Project # 03 | | 034013010 |
| Sample ID | | MW-5 | | | Sampler | Daniel-Newman AC |
| Analyses | | BTEX 8021 | | | | |
| Matrix | | Groundwat | er | | Laboratory | Hall Environmental |
| Turn Around | d Time | Standard | | Ship | ping Method | Christine |
| Depth to Wa | ater | 52.20 | > | | TD of Well | 52.24 |
| Time | | 0815 | | Dept | th to Product | NIA |
| Vol. of H2O | to purge | Not e | novah Wa | ater | | |
| | | (height | of Water colu | ımn * 0.163 | 1 for 2" well o | or 0.6524 for 4" well) * 3 well vols |
| Method of I | Purging | PVC Bailer | | | | |
| Method of S | Sampling | PVC Bailer | | | | |
| <u> </u> | | Total Vol | | | | |
| | Vol. | H2O | | T | Conducation | |
| 71 | Removed | removed | pH (ctd_units) | iemp. | (us or ms) | Comments |
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| Sample LocationHistorice integrationSample Date17/4/14Sample Time1/2/4/14Sample IDMW-7AnalysesBTEX 8021MatrixGroundwaterLabo | Name San Juan Basin Remediation oject # 034013010 ampler-Daniel Newman AC oratory Hall Environmental Method Christine of Well Product MA |
|--|--|
| Sample DateImage: Control of the second | oject # 034013010 ampler- Daniel Newman AC Dratory Hall Environmental Method Christine of Well Product MA |
| Sample IDMW-7Sample IDAnalysesBTEX 8021MatrixGroundwaterLabo | ampler- Daniel Newman AC |
| Analyses BTEX 8021 Matrix Groundwater Labo | Product MAL |
| Matrix Groundwater Labo | Dratory Hall Environmental Method Christine of Well Product MA |
| | Nethod Christine of Well Product |
| Turn Around Time Standard Shipping M | of Well |
| Depth to Water $\int \Delta a h$ TD c | Product MA |
| Time 0.915 Depth to P | |
| $V_{\rm rel} = f_{\rm rel} = N/IP$ | |
| (height of water column * 0.1631 for 2 | 2" well or 0.6524 for 4" well) * 3 well vols |
| Method of Purging PVC Bailer | |
| Method of Sampling PVC Bailer | |
| | |
| Total Vol | |
| Removed removed pH Temp. Condu | uctivity |
| Time (gal.) (gal.) (std. units) (C) (us o | or ms) Comments |
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| Comments: | |
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| Describe Deviations from SOP: NOT endugh Way | ter tor Sample |
| <i>U</i> | |
| Signature: Ally Greaks Date | e: <u>12/4/14</u> |
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4

APPENDIX B

ANALYTICAL LABORATORY REPORTS





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

March 27, 2014

Ashley Ager LTE 2243 Main Ave Suite 3 Durango, CO 81301 TEL: (970) 946-1093 FAX

RE: San Juan Basin Remediation Florance 40

OrderNo.: 1403913

Dear Ashley Ager:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/21/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued March 27, 2014.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1403913

| Hall Environmental Analysis Laboratory. Inc. |
|--|
|--|

CLIENT: LTE

Date Reported: 3/27/2014 Client Sample ID: MW-4 Collection Date: 3/19/2014 10:30:00 AM

| Project: | San Juan Basin Remediation | Florance 40 | | | Collection | Date: 3/1 | 9/2014 10:30:00 AM | |
|---------------------|----------------------------|-------------|----------|------|------------|------------------|----------------------|--------|
| Lab ID: 1403913-001 | | Matrix: | AQUEOU | S | Received | Date: 3/2 | 21/2014 10:00:00 AM | |
| Analyses | | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
| EPA MET | HOD 8021B: VOLATILES | | | | | | Analyst | : NSB |
| Benzene | | ND | 1.0 | | µg/L | 1 | 3/25/2014 2:56:41 PM | R17568 |
| Toluene | | ND | 1.0 | | µg/L | 1 | 3/25/2014 2:56:41 PM | R17568 |
| Ethylben | zene | 3.9 | 1.0 | | µg/L | 1 | 3/25/2014 2:56:41 PM | R17568 |
| Xylenes, | Total | 12 | 2.0 | | µg/L | 1 | 3/25/2014 2:56:41 PM | R17568 |
| Surr: 4 | 1-Bromofluorobenzene | 142 | 82.9-139 | S | %REC | 1 | 3/25/2014 2:56:41 PM | R17568 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| 10101 00 010 | X = 2 = 2 = 1 | inity repor | t und sump | 10 10 Bill 1 | | χ υ. | Juna and J | | |
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| * | Value exceeds Maximum Contaminant Level. |
|---|--|
|---|--|

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit

Qualifiers:

- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
 - Not Detected at the Reporting Limit Page 1 of 3
- P Sample pH greater than 2.

ND

RL Reporting Detection Limit

Analytical Report Lab Order 1403913 Date Reported: 3/27/2014

1 3/25/2014 12:21:24 AM R17539

| CLIENT: | LTE | | | (| Client Sa | ample ID: Trip Blank | | | | |
|----------|------------------------------|-------------|------------------|------|-----------|---------------------------------|--------|--|--|--|
| Project: | San Juan Basin Remediation H | Florance 40 | Collection Date: | | | | | | | |
| Lab ID: | 1403913-002 | Matrix: | AQUEOUS | 5 | Receiv | ved Date: 3/21/2014 10:00:00 AM | | | | |
| Analyses | | Result | RL | Qual | Units | DF Date Analyzed | Batch | | | |
| EPA MET | HOD 8021B: VOLATILES | | | | | Analyst | NSB | | | |
| Benzene | | ND | 1.0 | Р | µg/L | 1 3/25/2014 12:21:24 AM | R17539 | | | |
| Toluene | | ND | 1.0 | Ρ | µg/L | 1 3/25/2014 12:21:24 AM | R17539 | | | |
| Ethylben | zene | ND | 1.0 | Ρ | µg/L | 1 3/25/2014 12:21:24 AM | R17539 | | | |
| Xylenes, | Total | ND | 2.0 | Ρ | µg/L | 1 3/25/2014 12:21:24 AM | R17539 | | | |

82.9-139 P

88.1

%REC

Hall Environmental Analysis Laboratory, Inc.

Surr: 4-Bromofluorobenzene

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В |
|-------------|---|--|----|
| | Е | Value above quantitation range | Н |
| | J | Analyte detected below quantitation limits | ND |
| | 0 | RSD is greater than RSDlimit | Р |
| | R | RPD outside accepted recovery limits | RL |

- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
 - D Not Detected at the Reporting Limit Page 2 of 3
- P Sample pH greater than 2.
- RL Reporting Detection Limit

| Client: | LTE | | | | | | | | | | |
|----------------|-----------------|----------------|-----------------|-------------|--------------------------------------|---------------|-----------|--------------|------|----------|------|
| Project: | San Juan | Basin Rer | nediatio | on Florance | 40 | | | | | | |
| Sample ID | 5ML RB | SampT | ype: MI | BLK | Tes | tCode: E | PA Method | 8021B: Volat | iles | | |
| Client ID: | PBW | Batcl | n ID: R1 | 7539 | F | RunNo: 1 | 7539 | | | | |
| Prep Date: | | Analysis E |)ate: 3/ | /24/2014 | 5 | SeqNo: 5 | 05125 | Units: µg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | ND | 1.0 | | | | | | | | |
| Toluene | | ND | 1.0 | | | | | | | | |
| Ethylbenzene | | ND | 1.0 | | | | | | | | |
| Xylenes, Total | | ND | 2.0 | | | | | | | | |
| Surr: 4-Brom | nofluorobenzene | 19 | | 20.00 | | 94.9 | 82.9 | 139 | | | |
| Sample ID | 100NG BTEX LCS | SampT | ype: LC | s | Tes | tCode: E | PA Method | 8021B: Volat | iles | | |
| Client ID: | LCSW | Batcl | n ID: R1 | 7539 | F | RunNo: 1 | 7539 | | | | |
| Prep Date: | | Analysis E |)ate: 3/ | /24/2014 | S | SeqNo: 5 | 05126 | Units: µg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 20 | 1.0 | 20.00 | 0 | 102 | 80 | 120 | | | |
| Toluene | | 20 | 1.0 | 20.00 | 0 | 102 | 80 | 120 | | | |
| Ethylbenzene | | 20 | 1.0 | 20.00 | 0 | 100 | 80 | 120 | | | |
| Xylenes, Total | | 61 | 2.0 | 60.00 | 0 | 102 | 80 | 120 | | | |
| Surr: 4-Brom | nofluorobenzene | 20 | | 20.00 | | 101 | 82.9 | 139 | | | |
| Sample ID | 5ML RB | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatile | | | | | | |
| Client ID: | PBW | Batcl | n ID: R1 | 7568 | RunNo: 17568 | | | | | | |
| Prep Date: | | Analysis E | Date: 3/ | /25/2014 | 5 | SeqNo: 506039 | | Units: µg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | ND | 1.0 | | | | | | | | |
| Toluene | | ND | 1.0 | | | | | | | | |
| Ethylbenzene | | ND | 1.0 | | | | | | | | |
| Xylenes, Total | | ND | 2.0 | | | | | | | | |
| Surr: 4-Brom | nofluorobenzene | 19 | | 20.00 | | 95.4 | 82.9 | 139 | | | |
| Sample ID | 100NG BTEX LCS | SampT | ype: LC | s | Tes | tCode: E | PA Method | 8021B: Volat | iles | | |
| Client ID: | LCSW | Batcl | n ID: R1 | 7568 | F | RunNo: 1 | 7568 | | | | |
| Prep Date: | | Analysis D |)ate: 3/ | /25/2014 | S | SeqNo: 5 | 06040 | Units: µg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 19 | 1.0 | 20.00 | 0 | 94.8 | 80 | 120 | | | |
| Toluene | | 19 | 1.0 | 20.00 | 0 | 95.6 | 80 | 120 | | | |
| Ethylbenzene | | 19 | 1.0 | 20.00 | 0 | 92.8 | 80 | 120 | | | |
| Xylenes, Total | | 58 | 2.0 | 60.00 | 0 | 96.5 | 80 | 120 | | | |
| Surr: 4-Brom | nofluorobenzene | 19 | | 20.00 | | 95.4 | 82.9 | 139 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2.
 - RL Reporting Detection Limit

Page 3 of 3

| HALL |
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| ENVIRONMENTAL |
| ANALYSIS |
| LABORATORY |
| |

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

| Client N | lame: | LTE | | Work C | order Number | : 14039 |)13 | | | Rcpt | No: ´ | 1 |
|-------------------|---------------------------|-----------------------------------|---------------------------------|------------------|---------------|-------------|--------------|---|--------------|----------------|-------|-------------------|
| Receive | d by/date | :fY | 13- | 03 | pi/I4 | | | · • • | | | | - |
| Logged I | Ву: | Michelle Ga | arcia | 3/21/2014 | 10:00:00 AI | М | | Minule | Genuie | > | | |
| Complet | ed By: | Michelle Ga | arcia | 3/21/2014 | 1 10:49:49 AI | N | | minul | Garrie | > | | |
| Reviewe | d By: | A | | 03/21 | 14 | | | | | | | |
| <u>Chain c</u> | of Cust | tody | 9 | , | | | | | | | | |
| 1. Cust | tody seal | s intact on sa | mple bottles? | | | Yes | | No 🗌 |] | Not Present | ✓ | |
| 2. Is Cl | hain of C | ustody compl | ete? | | | Yes | | No |] | Not Present | | |
| 3. How | was the | sample delive | ered? | | | <u>Cour</u> | <u>ier</u> | | | | | |
| <u>Log In</u> | 1 | | | | · | | | | | | | |
| 4. Was | s an atter | mpt made to o | cool the samp | les? | | Yes | ✓ | No | | NA | | |
| 5. Wer | e all sam | ples received | l at a tempera | ture of >0° C | to 6.0°C | Yes | | No |] | na [| | |
| 6. Sam | nple(s) in | proper conta | iner(s)? | | | Yes | | No | | | | |
| 7. Suffi | icient sar | mple volume f | or indicated te | est(s)? | | Yes | ✓ | No 🗌 | | | | |
| 8. Are: | samples | (except VOA | and ONG) pro | operly preserve | ed? | Yes | \checkmark | No 🗌 |] | | | |
| 9. Was | preserv | ative added to | bottles? | | | Yes | | No 🗹 |] | NA | | |
| 10.VOA | vials ha | ive zero heads | space? | | | Yes | | No [|] N | lo VOA Vials | | |
| 11. Wei | re any sa | imple containe | ers received b | roken? | | Yes | | No 🛛 | / # | f of preserved | 1 | |
| 12. Doe (Not | s paperw e discrer | vork match bo pancies on cha | ttie labels? ain of custody |) | | Yes | ✓ | No 🗌 |] f | or pH: | <2 or | >12 unless noted) |
| 13. Are | matrices | correctly ider | ntified on Chai | n of Custody? | | Yes | \checkmark | No 🗌 |] | Adjusted | ? | |
| 14. ls it | clear what | at analyses w | ere requested | ? | | Yes | | No 🗌 | ו | | | |
| 15. Wer (If no | e all holo o, notify (| ling times able customer for a | e to be met? authorization.) | | | Yes | | No 🗌 | | Checked I | oy: | |
| · | • | | | | | | | | | | | |
| <u>Specia</u> | l Hand | ling (if app | olicable) | | | | | | 7 | | | |
| 16. Was | s client no | otified of all di | screpancies v | vith this order? | | Yes | | No | | NA | | |
| | Person | Notified: | | | Date | | | | | | | |
| | · By Wh | om: | | | Via: | eMa | il 📋 | Phone 🗌 Fa | ax 🗌 | In Person | - | |
| | Regard | ding: | <u> </u> | | | | | the film of the second s | | | - | |
| | | | | | | | | | | | | · 1 · |
| 17. Add | ditional re True | emarks: Black Irmation | nk wa | ls maol | e and f | orov | oleo | 1 by | Clie | ent. B | Ħ | 03 21 14 |
| (| Cooler No | | Condition | Seal Intact | Seal No | Seal Da | ate | Signed By | | | - | |
| 1 | | 1.0 | Good | Yes | | | | | | | | |
| | | | | | | | | | | | | <u></u> |

i.

| Chain-of-Custody Record | | |
|---|---|--|
| Client: LT ENVIRONMENTAL | X Standard 🗆 Rush | ANALYSIS LABORATORY |
| | Project Name: SAN Juan BASIN Remedicition | www.haltenvironmental.com |
| Mailing Address: 2243 MAN AVE | Florance 40 | 4901 Hawkins NE - Albuquerque, NM 87109 |
| Duranan Co Erigol | Project #: | Tel. 505-345-3975 Fax 505-345-4107 |
| Phone # 970 385-106 | 034013010 | Analysis Request |
| email or Fax#: adderal ten Con | Project Manager: | () () () () () () () () () () () () () (|
| QA/QC Package: | Hahler Rook | DO 4'2 Sas c (805 |
| P Standard C Level 4 (Full Validation) | | еления 1 С С С С С С С С С С С С С С С С С С С |
| Correction Cother | Sampler: White NEW MHY On Ide: Ares I No | MT + PT + PT - PT - PT - PT - PT - PT - PT - PT - |
| EDD (Type) | Sample Temperature | BE (Cf) (Cf) (Cf) (Cf) (Cf) (Cf) (Cf) (Cf) |
| Date Time Matrix Sample Request ID | Container Preservative HEAL No. Type and # Type 140. | TEX + <u>M</u> I TM + X3TE TM + X3TE TPH 8015B PH (Metho PH's (831 PH's (831 Pestic Noions (F,C No S260B (VO S270 (Semi No S270 (Semi |
| 19/14 1030 GW MW-4 | 3100A HUL - 001 | |
| Indled TRIPBIANK | Stude Carl - CO2 | |
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| | | |
| Date: Time: Relingwished by | Received by: Date Time I Mutul Jale 3/20/1/ 12610 | Remarks: |
| 20/14/1744 Minthe Walter | M hall a Color 100 | 0 |
| If necessary samples submitted to Hall Environmental may be sub | bcontracted to other accredited laboratories. This serves as notice of this p | possibility. Any sub-contracted data will be clearly notated on the analytical report. |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 20, 2014

Brook Herb LTE 2243 Main Ave Suite 3 Durango, CO 81301 TEL: (970) 946-1093 FAX

OrderNo.: 1406678

RE: Florance #40

Dear Brook Herb:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/14/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1406678

| Hall Environmental Analysis Laboratory, Inc. | |
|--|--|
|--|--|

Date Reported: 6/20/2014

| CLIENT: LTE | | (| Client Sampl | e ID: MV | W-4 | |
|------------------------------|---------|----------|-----------------|------------------|----------------------|--------|
| Project: Florance #40 | | | Collection 1 | Date: 6/1 | 2/2014 12:00:00 PM | |
| Lab ID: 1406678-001 | Matrix: | AQUEOUS | Received | Date: 6/1 | 4/2014 10:00:00 AM | |
| Analyses | Result | RL Qual | Units | DF | Date Analyzed | Batch |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | NSB |
| Benzene | ND | 2.0 | µg/L | 2 | 6/18/2014 3:39:30 PM | R19363 |
| Toluene | ND | 2.0 | µg/L | 2 | 6/18/2014 3:39:30 PM | R19363 |
| Ethylbenzene | ND | 2.0 | µg/L | 2 | 6/18/2014 3:39:30 PM | R19363 |
| Xylenes, Total | 7.2 | 4.0 | µg/L | 2 | 6/18/2014 3:39:30 PM | R19363 |
| Surr: 4-Bromofluorobenzene | 116 | 82.9-139 | %REC | 2 | 6/18/2014 3:39:30 PM | R19363 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Metho |
|-------------|---|--|---|--|

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit Page 1 of 4
- Р Sample pH greater than 2.
- Reporting Detection Limit RL

Analytical Report Lab Order 1406678 Date Reported: 6/20/2014

| CLIENT: LTE | | | Client Sampl | e ID: Tr | ip Blank | |
|------------------------------|---------|----------|-----------------|------------------|-----------------------|----------|
| Project: Florance #40 | | | Collection | Date: | | |
| Lab ID: 1406678-002 | Matrix: | AQUEOUS | Received | Date: 6/1 | 14/2014 10:00:00 AM | |
| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
| EPA METHOD 8021B: VOLATILES | | | | | Analys | t: NSB |
| Benzene | ND | 1.0 | μg/L | 1 | 6/16/2014 11:14:24 PM | / R19307 |
| Toluene | ND | 1.0 | μg/L | 1 | 6/16/2014 11:14:24 PM | / R19307 |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | 6/16/2014 11:14:24 PM | / R19307 |
| Xylenes, Total | ND | 2.0 | µg/L | 1 | 6/16/2014 11:14:24 PM | / R19307 |
| Surr: 4-Bromofluorobenzene | 108 | 82.9-139 | %REC | 1 | 6/16/2014 11:14:24 PM | / R19307 |

Hall Environmental Analysis Laboratory, Inc.

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Analyte detected in the associated Method Blank Holding times for preparation or analysis exceeded

Page 2 of 4

Not Detected at the Reporting Limit

Sample pH greater than 2. Reporting Detection Limit

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В |
|-------------|---|---|----|
| | Е | Value above quantitation range | Н |
| | J | Analyte detected below quantitation limits | ND |
| | 0 | RSD is greater than RSDlimit | Р |
| | R | RPD outside accepted recovery limits | RL |
| | S | Spike Recovery outside accepted recovery limits | |

| QC SUMMARY REPORT | |
|--|--|
| Hall Environmental Analysis Laboratory, Inc. | |

WO#: 1406678

| Client: | LTE | | | | | | | | | | |
|-----------------|-----------------|------------|------------------|-----------|-------------|-----------|-----------|--------------|-------|----------|------|
| Project: | Florance | #40 | | | | | | | | | |
| Sample ID | 5MI DR | Somo | NDO: M | | Too | tCodo: El | PA Mothod | 9021B: Volat | ilos | | |
| | | Batel | уре. Ми | 0207 | 103 | | | | .1165 | | |
| Drew Deter | FDW | | | 9307 | Г | | 5017 | 1.1 | | | |
| Prep Date: | | Analysis L | Date: 6 | 16/2014 | 3 | SeqNo: 5 | 58173 | Units: µg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | ND | 1.0 | | | | | | | | |
| Toluene | | ND | 1.0 | | | | | | | | |
| Ethylbenzene | | ND | 1.0 | | | | | | | | |
| Xylenes, I otal | a i | ND | 2.0 | ~~~~ | | | | 400 | | | |
| Surr: 4-Bron | nofluorobenzene | 23 | | 20.00 | | 113 | 82.9 | 139 | | | |
| Sample ID | 100NG BTEX LCS | SampT | ype: LC | S | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
| Client ID: | LCSW | Batch | h ID: R1 | 9307 | F | RunNo: 1 | 9307 | | | | |
| Prep Date: | | Analysis D | Date: 6 | /16/2014 | S | SeqNo: 5 | 58174 | Units: µg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 20 | 1.0 | 20.00 | 0 | 102 | 80 | 120 | | | |
| Toluene | | 20 | 1.0 | 20.00 | 0 | 102 | 80 | 120 | | | |
| Ethylbenzene | | 20 | 1.0 | 20.00 | 0 | 100 | 80 | 120 | | | |
| Xylenes, Total | | 63 | 2.0 | 60.00 | 0 | 105 | 80 | 120 | | | |
| Surr: 4-Bron | nofluorobenzene | 24 | | 20.00 | | 120 | 82.9 | 139 | | | |
| Sample ID | 5ML RB | SampT | ype: M | BLK | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
| Client ID: | PBW | Batch | h ID: R1 | 9316 | F | RunNo: 1 | 9316 | | | | |
| Prep Date: | | Analysis D | Date: 6/ | /17/2014 | S | SeqNo: 5 | 59069 | Units: %RE | с | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bron | nofluorobenzene | 20 | | 20.00 | | 102 | 82.9 | 139 | | | |
| Sample ID | 100NG BTEX LCS | SampT | ype: LC | S | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
| Client ID: | LCSW | Batch | h ID: R 1 | 9316 | F | RunNo: 1 | 9316 | | | | |
| Prep Date: | | Analysis D | Date: 6 | /17/2014 | S | SeqNo: 5 | 59070 | Units: %RE | с | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bron | nofluorobenzene | 22 | | 20.00 | | 109 | 82.9 | 139 | | | |
| Sample ID | 5ML RB | SampT | ype: M I | BLK | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
| Client ID: | PBW | Batch | h ID: R1 | 9363 | F | RunNo: 1 | 9363 | | | | |
| Prep Date: | | Analysis D | Date: 6/ | /18/2014 | S | SeqNo: 5 | 60010 | Units: µg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | ND | 1.0 | | | | | | | | |
| Toluene | | ND | 1.0 | | | | | | | | |
| Ethylbenzene | | ND | 1.0 | | | | | | | | |
| Xylenes, Total | | ND | 2.0 | | | | | | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- Р Sample pH greater than 2.
- RL Reporting Detection Limit

Page 3 of 4

20-Jun-14

Client: LTE

Project: Florance #40

| Sample ID 5ML RB | SampTy | /pe: ME | BLK | Test | tCode: EF | PA Method | 8021B: Volat | iles | | |
|----------------------------|--------------|----------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: PBW | Batch | ID: R1 | 9363 | R | unNo: 19 | 9363 | | | | |
| Prep Date: | Analysis Da | ate: 6/ | 18/2014 | S | SeqNo: 50 | 60010 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 21 | | 20.00 | | 106 | 82.9 | 139 | | | |
| Sample ID 100NG BTE | X LCS SampTy | /pe: LC | S | Test | tCode: EF | PA Method | 8021B: Volat | iles | | |
| Client ID: LCSW | Batch | ID: R1 | 9363 | R | unNo: 19 | 9363 | | | | |
| Prep Date: | Analysis Da | ate: 6/ | 18/2014 | S | SeqNo: 50 | 60011 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 22 | 1.0 | 20.00 | 0 | 112 | 80 | 120 | | | |
| Toluene | 22 | 1.0 | 20.00 | 0 | 109 | 80 | 120 | | | |
| Ethylbenzene | 22 | 1.0 | 20.00 | 0 | 111 | 80 | 120 | | | |
| Xylenes, Total | 66 | 2.0 | 60.00 | 0 | 110 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 22 | | 20.00 | | 109 | 82.9 | 139 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2.
 - RL Reporting Detection Limit

| HALL |
|------------|
| |
| ANALYSIS |
| LABORATORY |
| |

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

| Client Name: LTE | Work Order Number: 1406678 | _ | RcptNo: 1 |
|---|----------------------------|----------|--|
| Received by/date:AG | do/14/14 | | |
| Logged By: Michelle Garcia 6/1 | 4/2014 10:00:00 AM | Minul Ga | un |
| Completed By: Michelle Garcia 6/1 | 16/2014 9:14:12 AM | Minul Go | un) |
| Reviewed By: | OLDINALLO | | |
| Chain of Custody | India | | |
| 1 Custody seals intact on sample bottles? | Yes 🗌 | No 🗌 | Not Present 🗹 |
| 2 Is Chain of Custody complete? | Yes 🔽 | No 🗌 | Not Present |
| 3. How was the sample delivered? | Courier | | |
| Log In | | | |
| 4. Was an attempt made to cool the samples? | Yes 🗹 | No 🗍 | |
| 5. Were all samples received at a temperature of | >0° C to 6.0°C Yes 🗹 | No 🗌 | |
| 6. Sample(s) in proper container(s)? | Yes 🗹 | No 🗌 | |
| 7. Sufficient sample volume for indicated test(s)? | Yes 🗸 | No 🗌 | |
| 8. Are samples (except VOA and ONG) properly p | oreserved? Yes 🖌 | No 🗌 | |
| 9. Was preservative added to bottles? | Yes | No 🗹 | NA 🗌 |
| 10.VOA vials have zero headspace? | Yes 🗸 | No 🗆 | No VOA Vials |
| 11. Were any sample containers received broken? | Yes 🗆 | No 🗹 | # of preserved |
| 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes 🗹 | No 🗌 | bottles checked for pH: (<2 or >12 unless noted) |
| 13. Are matrices correctly identified on Chain of Cu | stody? Yes 🗹 | No 🗌 | Adjusted? |
| 14. Is it clear what analyses were requested? | Yes 🗹 | No 🗌 | |
| 15. Were all holding times able to be met? (if no, notify customer for authorization.) | Yes 🗹 | No 🗍 | Checked by: |
| <u>Special Handling (if applicable)</u> | | | |
| 16. Was client notified of all discrepancies with this | order? Yes 🗌 | No 🗌 | NA 🗹 |

| Person Notified: | Date: |
|----------------------------|---|
| By Whom: | Via: 🗌 eMail 🗌 Phone 🗌 Fax 💭 In Person |
| Regarding: | TENTING AND DESIGN OF A DESIGN AND A |
| Client Instructions | |

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.9 | Good | Yes | | | |

| J | hain | -ot-CL | ustody Kecorc | | מווחסוע-ווומ ו | , IIIIC. | | . | | يلي | | | 22 | | Z | Ľ | | | | |
|--------------------|---------------|----------------|-----------------------------------|------------|-------------------------|----------------------|--------------------------------------|-------------------------|------------|------------|------------|-------------------------|--------------------|-------------|----------------|------------|----------|----|-------------|-----|
| Client: | 5 | PNI. | mented | | Standard | 🗆 Rush | | | | | Z | <u>ר</u> ן | SIS | | ġ | 2 | Ĕ | 20 | . > | |
| | | | | | Project Name | | | | | | www. | nallen | vironn | nental | com. | | | | | |
| Mailing | Address | 326 | 13 Main the | С М | Florar | Jr #- an | 6 | i | 4901 | Hawki | ns NE | - A | ∍nbnq | srque, | ŇM | 37109 | | | • | |
| D | MUNe | S D | 0 8130) | | Project #: | | | | Tel. | 505-34 | 5-397 | 5 | Fax { | 505-34 | 15-4 1 | 07 | | | | - |
| Phone ₁ | # 4 | ₩ 1 | 585 1094 | | 036 | (0)30) | り | | | | | Ana | ysis | Reque | est | | | | | _ |
| email o | r Fax#: | 4 Her | rac thur is | Ş | Project Mana | ger: | | () | BO) | / | | | (⁵ O | S | | | | | | |
| QA/QC | Package: | | | | Roat ! | (Vroj | | Z08 | o se | | | (5) | S'⁺C | CB | | | | | | |
| X Stan | dard | | Level 4 (Full Valida | ation) | 2000 | | |) 6,8 – T | 08 อ) เ | | | ر ۱۱۸ |)d, ₂ | d 2 | | | | | | |
| Accred | itation AP | □ Oth€ | er | | Sampler: X | wooke + | 16/0 10 No | | Hat + | (1.81 | (1.40 | 0/78 | ON' ^e C | 808 / 9 | | | | | (N ro | , |
| | (Type) | | | | Sample Temp | érature: | $\frac{bl}{bl}$ | BE | • 38 | .t p | g po | to t slet |) DN'I | səpi | <u>بر</u> ۱ | | | |) <u>(</u> | |
| Date | Time | Matrix | Sample Reques | <u> </u> | Container Type and # | Preservative Type | HEALNO. | BLEX + ML | TM + X3T8 | TPH (Metho | EDB (Metho | NE8) 2 HAY RCRA 8 Me | O, I) snoinA | S081 Pestic | | | <u> </u> | | Air Bubbles | |
| 1214 | Oo() | GK G | MW-4 | | V04/3 | Hey | -00- | X | | | | | | | | | | | | |
| | | | The Blank | . 1 | C HON | Her | -002 | ${}^{\lambda}$ | | | | | | | | | | | | |
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| Date: כן/יל | Time: | Relinquist | thed by: | | Received by: | 1 hel | Date Time | Ren | larks: | | | | | | | | | | | ł |
| Pate: eli3/H | тіте: 7630 | | IN Nove | | Received by: | Mall | Date Time 14 14 1 225-1000 | 20 | | | | · | | | | | | | | |
| _ _ | If necessary, | , samples suit | builted to Hall Environmental may | y be subco | ntracted to other a | credited laboratori | et This serves as notice of th | dis possib | ility. Any | sub-con | tracted (| lata will | oe clearl | y notate | d on th | e analytic | cal repo | ť | | |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

September 24, 2014

Brooke Herb LTE 2243 Main Ave Suite 3 Durango, CO 81301 TEL: (970) 946-1093 FAX

OrderNo.: 1409638

Dear Brooke Herb:

RE: Florance #40

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/13/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1409638

Date Reported: 9/24/2014

| CLIENT: LTE | | (| Client Samj | ole ID: MW-4 | |
|------------------------------|---------|----------|-------------|----------------------------|--------|
| Project: Florance #40 | | | Collection | Date: 9/12/2014 9:45:00 AM | |
| Lab ID: 1409638-001 | Matrix: | AQUEOUS | Received | Date: 9/13/2014 8:00:00 AM | |
| Analyses | Result | RL Qual | Units | DF Date Analyzed | Batch |
| EPA METHOD 8021B: VOLATILES | | | | Analyst: | DJF |
| Benzene | ND | 1.0 | µg/L | 1 9/17/2014 11:59:15 AM | R21267 |
| Toluene | ND | 1.0 | µg/L | 1 9/17/2014 11:59:15 AM | R21267 |
| Ethylbenzene | ND | 1.0 | µg/L | 1 9/17/2014 11:59:15 AM | R21267 |
| Xylenes, Total | 5.7 | 2.0 | µg/L | 1 9/17/2014 11:59:15 AM | R21267 |
| Surr: 4-Bromofluorobenzene | 115 | 66.6-167 | %REC | 1 9/17/2014 11:59:15 AM | R21267 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | 1 |
|-------------|---|--|----|---|
| | Е | Value above quantitation range | Н | I |
| | J | Analyte detected below quantitation limits | ND | I |
| | 0 | RSD is greater than RSDlimit | Р | 5 |
| | - | // // // // // | | |

- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

Page 1 of 3

- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1409638 Date Reported: 9/24/2014

| CLIENT: LTE | | (| Client Samp | le ID: Tr | ip Blank | |
|------------------------------|---------|------------|-------------|------------------|-----------------------|--------|
| Project: Florance #40 | | | Collection | Date: | | |
| Lab ID: 1409638-002 | Matrix: | TRIP BLANK | Received | Date: 9/1 | 3/2014 8:00:00 AM | |
| Analyses | Result | RL Qual | Units | DF | Date Analyzed | Batch |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | DJF |
| Benzene | ND | 1.0 | µg/L | 1 | 9/17/2014 12:29:27 PN | R21267 |
| Toluene | ND | 1.0 | µg/L | 1 | 9/17/2014 12:29:27 PN | R21267 |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | 9/17/2014 12:29:27 PN | R21267 |
| Xylenes, Total | ND | 2.0 | µg/L | 1 | 9/17/2014 12:29:27 PN | R21267 |
| Surr: 4-Bromofluorobenzene | 109 | 66.6-167 | %REC | 1 | 9/17/2014 12:29:27 PN | R21267 |

Hall Environmental Analysis Laboratory, Inc.

Value exceeds Maximum Contaminant Level. B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Page 2 of 3

- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- E Value above quantitation rangeJ Analyte detected below quantitation limits
 - O RSD is greater than RSDlimit

*

Qualifiers:

- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

| QC SUMMARY REPORT |
|---|
| Hall Environmental Analysis Laboratory, Inc |

WO#: **1409638**

Client: LTE

Project: Florance #40

| Sample ID 5ML RB | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
|--|---|---|--|---|---|---|--|------|----------|------|
| Client ID: PBW | Batch | n ID: R2 | 1267 | R | unNo: 2 | 1267 | | | | |
| Prep Date: | Analysis D | ate: 9/ | 17/2014 | S | eqNo: 6 | 20423 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 1.0 | | | | | 0 | | | |
| Toluene | ND | 1.0 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Xylenes, Total | ND | 2.0 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 21 | | 20.00 | | 104 | 66.6 | 167 | | | |
| Sample ID 100NG BTEX L | _CS SampT | ype: LC | S | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
| | | | | | | | | | | |
| Client ID: LCSW | Batch | n ID: R2 | 1267 | R | unNo: 2 | 1267 | | | | |
| Client ID: LCSW Prep Date: | Batch Analysis D | n ID: R2 Date: 9 / | 1267 17/2014 | R | tunNo: 2 SeqNo: 6 | 1267 20424 | Units: µg/L | | | |
| Client ID: LCSW Prep Date: Analyte | Batch Analysis D Result | n ID: R2 Date: 9/ PQL | 1267 17/2014 SPK value | R S SPK Ref Val | unNo: 2 eqNo: 6 %REC | 1267 20424 LowLimit | Units: µg/L HighLimit | %RPD | RPDLimit | Qual |
| Client ID: LCSW Prep Date: Analyte Benzene | Batch Analysis D Result 19 | n ID: R2 Date: 9/ PQL 1.0 | 1267 17/2014 SPK value 20.00 | R S SPK Ref Val 0 | 2007 2003 2003 2003 2003 2003 2003 2003 | 1267 20424 LowLimit 80 | Units: µg/L HighLimit 120 | %RPD | RPDLimit | Qual |
| Client ID: LCSW Prep Date: Analyte Benzene Toluene | Batch Analysis D Result 19 20 | n ID: R2 Date: 9/ PQL 1.0 1.0 | 1267 17/2014 SPK value 20.00 20.00 | R SPK Ref Val 0 0 | tunNo: 2 eqNo: 6 %REC 97.0 98.3 | 1267 20424 LowLimit 80 80 | Units: µg/L HighLimit 120 120 | %RPD | RPDLimit | Qual |
| Client ID: LCSW Prep Date: Analyte Benzene Toluene Ethylbenzene | Batch Analysis D Result 19 20 20 | n ID: R2 Date: 9/ <u>PQL</u> 1.0 1.0 1.0 | 1267 17/2014 SPK value 20.00 20.00 20.00 | F SPK Ref Val 0 0 0 0 | tunNo: 2 6eqNo: 6 77.0 98.3 98.1 | 1267 20424 LowLimit 80 80 80 | Units: µg/L HighLimit 120 120 120 | %RPD | RPDLimit | Qual |
| Client ID: LCSW Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total | Batch Analysis D Result 19 20 20 61 | Date: 9/ PQL 1.0 1.0 1.0 2.0 | 1267 17/2014 SPK value 20.00 20.00 20.00 60.00 | R SPK Ref Val 0 0 0 0 0 | eunNo: 2 6eqNo: 6 77.0 98.3 98.1 102 | 1267 20424 LowLimit 80 80 80 80 | Units: µg/L HighLimit 120 120 120 120 | %RPD | RPDLimit | Qual |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2.
 - RL Reporting Detection Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

| Client Name: LTE Work | Order Number: 1409638 | | RcptNo: | 1 |
|---|-----------------------|---------------|--------------------|---------------------|
| Received by/date: | / }∠[| 14 | | |
| Logged By: Lindsay Mangin 9/13/20 | 14 8:00:00 AM | Junki Harris | | |
| Completed By: Lindsay Mangin 9/13/20 ⁻ | 14 8:51:18 AM | Annaly Hanger | | |
| Reviewed By: IO 09/15 | 5/14 | | | |
| Chain of Custody | | | | |
| 1. Custody seals intact on sample bottles? | Yes | No 🗌 | Not Present 🗹 | |
| 2. Is Chain of Custody complete? | Yes 🗸 | No 🗌 | Not Present | |
| 3. How was the sample delivered? | <u>Courier</u> | | | |
| <u>Log In</u> | | | | |
| 4. Was an attempt made to cool the samples? | Yes 🗹 | No 🗔 | NA 🗌 | |
| 5. Were all samples received at a temperature of >0° C | C to 6.0°C Yes 🗹 | No 🗌 | | |
| 6. Sample(s) in proper container(s)? | Yes 🗹 | No 🗌 | | |
| 7, Sufficient sample volume for indicated test(s)? | Yes 🗹 | No 🗀 | | |
| 8. Are samples (except VOA and ONG) properly preser | ved? Yes 🗹 | No 🗌 | | |
| 9. Was preservative added to bottles? | Yes 🗌 | No 🗹 | NA 🗌 | |
| 10.VOA vials have zero headspace? | Yes 🖌 | No 🗌 | No VOA Vials 🗌 | |
| 11. Were any sample containers received broken? | Yes | No 🗹 | # of preserved | |
| 12.Does paperwork match bottle labels? | Yes 🗹 | No 🗆 | for pH: | |
| (Note discrepancies on chain of custody) | | | (<2 c Adjusted? | r >12 unless noted) |
| 13. Are matrices correctly identified on Chain of Custody | ? Yes ⊻ | | | |
| 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? | Yes ⊻ Yes √ | | Checked by: | |
| (If no, notify customer for authorization.) | | l | | |
| Special Handling (if applicable) | | | | |
| 16. Was client notified of all discrepancies with this order | r? Yes 🗌 | No 🗌 | NA 🗹 | |
| Person Notified: | Date: | | <u></u> |] |
| By Whom: | Via: 🗌 eMail 🕅 | Phone 🗌 Fax | In Person | |
| Regarding: | | - <u> </u> | | |

17. Additional remarks:

Client Instructions:

18. Cooler Information

| | Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|--|-----------|---------|-----------|-------------|---------|-----------|-----------|
| | 1 | 1.8 | Good | Yes | | | |

an orange an a

| Chain-of-Custody Record | Turn-Around Time: | |
|--|--|---|
| Client: LT ENUTORMENTON | 🗙 Standard 🛛 Rush | |
| | Project Name: | www hallenvironmental com |
| Mailing Address: 27 43 Main Aug #3 | Florance #40 | 4901 Hawkins NE - Albuquerque, NM 87109 |
| Lange Co 8136 | Project #: | Tel. 505-345-3975 Fax 505-345-4107 |
| Phone #: 0 770-385-1896 | 03405010 | Analysis Request |
| email or Fax#: Blue DQH ENV CON | Project Manager: | () () () () () |
| QA/QC Package: | Runsko Herb | CB.2 V ⁴ :SC V2,5 S021 |
| X Standard D Level 4 (Full Validation) | | 25 P 21 P 21 P 21 P 21 P 21 P 21 P 21 P 21 |
| Accreditation | Sampler: ALLX CROILS | 71/// 7 (1) 8.1) 3.100 1,808 1,00 1,00 1,00 1,00 1,00 1,00 |
| EDD (Type) | Sample Temperature: 1.X | V 01 VOA 315 + 150 01 (100 100 100 100 100 100 100 100 100 10 |
| | | MTE 15B (ethoc 8310 9310 9310 9310 901-/ 901-/ 901-/ |
| Date Time Matrix Sample Request ID | Type and # Type HEALNO | + X3TE + |
| 7/12 0945 EW NW-4 | Sive Hel -001 > | V V I <t< td=""></t<> |
| The Blank | 3124 Hel -002 | |
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| | | |
| 12 1005 Relinquistred by | Minister Marter 9/12/14 mos | Remarks: |
| Plate: Time: Refinduished by: | Received by: | |
| MILTIN 11800 1 ANNOUN MUNICU | CHISIN CAUSIN CAD | |
| | bcontracted to other accredited laboratories. This serves as notice of this po | iossibility. Any sub-contracted data will be clearly notated on the analytical report. |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 11, 2014

Ashley Ager LTE 2243 Main Ave Suite 3 Durango, CO 81301 TEL: (970) 946-1093 FAX

RE: Florance #40

OrderNo.: 1412300

Dear Ashley Ager:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/5/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order: 1412300

Date Reported: 12/11/2014

| | | | Lab Order: 1412300 |
|--------|--|--|---|
| | | Collection D | ate: 12/4/2014 9:20:00 AM |
| | | Ma | trix: AQUEOUS |
| Result | RL Qua | l Units | DF Date Analyzed Batch ID |
| | | | Analyst: NSB |
| ND | 2.0 | µg/L | 2 12/8/2014 11:44:50 PM R22998 |
| ND | 2.0 | µg/L | 2 12/8/2014 11:44:50 PM R22998 |
| ND | 2.0 | µg/L | 2 12/8/2014 11:44:50 PM R22998 |
| 5.2 | 4.0 | µg/L | 2 12/8/2014 11:44:50 PM R22998 |
| 109 | 66.6-167 | %REC | 2 12/8/2014 11:44:50 PM R22998 |
| | | Collection D | Date: |
| | | Ma | trix: AQUEOUS |
| Result | RL Qua | l Units | DF Date Analyzed Batch ID |
| | | | Analyst: NSB |
| ND | 1.0 | µg/L | 1 12/9/2014 12:12:10 AM R22998 |
| ND | 1.0 | µg/L | 1 12/9/2014 12:12:10 AM R22998 |
| ND | 1.0 | µg/L | 1 12/9/2014 12:12:10 AM R22998 |
| ND | 2.0 | µg/L | 1 12/9/2014 12:12:10 AM R22998 |
| 111 | 66.6-167 | %REC | 1 12/9/2014 12:12:10 AM R22998 |
| | Result ND ND 5.2 109 Result ND ND ND 109 | Result RL Qua ND 2.0 ND 2.0 ND 2.0 ND 2.0 5.2 4.0 109 66.6-167 Result RL Qua ND 1.0 ND 2.0 111 66.6-167 | Collection D Max Result RL Qual Units ND 2.0 µg/L S.2 4.0 µg/L 109 66.6-167 %REC Max Collection D Max Max Max ND 1.0 µg/L Max ND 1.0 µg/L ND 2.0 µg/L ND 2.0 µg/L ND 2.0 µg/L < |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Hall Environmental Analysis Laboratory, Inc.

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit
- Page 1 of 2

| QC SUMMARY REPORT |
|---|
| Hall Environmental Analysis Laboratory, Inc |

WO#: 1412300

11-Dec-14

Client: LTE

Project: Florance #40

| Sample ID 5ML RB | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
|--|--|--|---|--|--|--|--|--------------|----------|------|
| Client ID: PBW | Batch | n ID: R2 | 2998 | R | anNo: 2 | 2998 | | | | |
| Prep Date: | Analysis D | Date: 12 | 2/8/2014 | S | SeqNo: 6 | 79367 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | ND | 2.5 | | | | | | | | |
| Benzene | ND | 1.0 | | | | | | | | |
| Toluene | ND | 1.0 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Xylenes, Total | ND | 2.0 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 21 | | 20.00 | | 105 | 66.6 | 167 | | | |
| | | | | | | | | | | |
| Sample ID 100NG BTEX LCS | SampT | vpe: LC | S | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
| Sample ID 100NG BTEX LCS | SampT | ype: LC | :S | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
| Sample ID 100NG BTEX LCS Client ID: LCSW | SampT Batch | ype: LC | S 2998 | Tes R | tCode: El RunNo: 2 | PA Method 2998 | 8021B: Volat | iles | | |
| Sample ID 100NG BTEX LCS Client ID: LCSW Prep Date: | SampT Batch Analysis D | ype: LC 1D: R2 Date: 12 | :S 2998 2/8/2014 | Tes R S | tCode: El RunNo: 2 SeqNo: 6 | PA Method 2998 79368 | 8021Β: Volat Units: μg/L | iles | | |
| Sample ID 100NG BTEX LCS Client ID: LCSW Prep Date: Analyte | SampT Batch Analysis D Result | ⁻ ype: LC n ID: R2 Date: 12 PQL | :S 2998 2/8/2014 SPK value | Tes R S SPK Ref Val | tCode: El RunNo: 2 SeqNo: 6 %REC | PA Method 2998 79368 LowLimit | 8021Β: Volat Units: μ <mark>g/L</mark> HighLimit | iles %RPD | RPDLimit | Qual |
| Sample ID 100NG BTEX LCS Client ID: LCSW Prep Date: Analyte Methyl tert-butyl ether (MTBE) | SampT Batch Analysis D Result 21 | Type: LC n ID: R2 Date: 12 PQL 2.5 | S 2998 2/8/2014 SPK value 20.00 | Tes R S SPK Ref Val 0 | tCode: El RunNo: 2 SeqNo: 6 %REC 106 | PA Method 2998 79368 LowLimit 67.4 | 8021B: Volat Units: µg/L HighLimit 147 | iles %RPD | RPDLimit | Qual |
| Sample ID 100NG BTEX LCS Client ID: LCSW Prep Date: Analyte Methyl tert-butyl ether (MTBE) Benzene | SampT Batch Analysis D Result 21 22 | Type: LC n ID: R2 Date: 12 PQL 2.5 1.0 | S 2998 2/8/2014 SPK value 20.00 20.00 | Tes R SPK Ref Val 0 0 | tCode: El RunNo: 2 SeqNo: 6 <u>%REC</u> 106 109 | PA Method 2998 79368 LowLimit 67.4 80 | 8021B: Volat Units: µg/L HighLimit 147 120 | iles %RPD | RPDLimit | Qual |
| Sample ID 100NG BTEX LCS Client ID: LCSW Prep Date: Analyte Methyl tert-butyl ether (MTBE) Benzene Toluene | SampT Batch Analysis D Result 21 22 22 | Type: LC n ID: R2 Date: 12 PQL 2.5 1.0 1.0 | S 2998 2/8/2014 SPK value 20.00 20.00 20.00 | Tes F SPK Ref Val 0 0 0 0 | tCode: El RunNo: 2 GeqNo: 6 %REC 106 109 111 | PA Method 2998 79368 LowLimit 67.4 80 80 | 8021B: Volat Units: μg/L HighLimit 147 120 120 | iles %RPD | RPDLimit | Qual |
| Sample ID 100NG BTEX LCS Client ID: LCSW Prep Date: Analyte Methyl tert-butyl ether (MTBE) Benzene Toluene Ethylbenzene | SampT Batch Analysis D Result 21 22 22 22 22 | ype: LC n ID: R2 Date: 12 PQL 2.5 1.0 1.0 1.0 | S 2998 2/8/2014 SPK value 20.00 20.00 20.00 20.00 | Tes F SPK Ref Val 0 0 0 0 | tCode: El RunNo: 2 SeqNo: 6 %REC 106 109 111 111 | PA Method 2998 79368 LowLimit 67.4 80 80 80 | 8021B: Volat Units: μg/L HighLimit 147 120 120 120 | iles %RPD | RPDLimit | Qual |
| Sample ID 100NG BTEX LCS Client ID: LCSW Prep Date: Analyte Methyl tert-butyl ether (MTBE) Benzene Toluene Ethylbenzene Xylenes, Total | SampT Batch Analysis D Result 21 22 22 22 67 | ype: LC n ID: R2 Date: 12 PQL 2.5 1.0 1.0 1.0 2.0 | S 2998 2/8/2014 SPK value 20.00 20.00 20.00 20.00 60.00 | Tes F S SPK Ref Val 0 0 0 0 0 0 | tCode: El RunNo: 2 SeqNo: 6 %REC 106 109 111 111 111 | PA Method 2998 79368 LowLimit 67.4 80 80 80 80 80 | 8021B: Volat Units: µg/L HighLimit 147 120 120 120 120 | iles %RPD | RPDLimit | Qual |
| Sample ID 100NG BTEX LCS Client ID: LCSW Prep Date: Analyte Methyl tert-butyl ether (MTBE) Benzene Toluene Ethylbenzene Xylenes, Total 1,2,4-Trimethylbenzene | SampT Batch Analysis D Result 21 22 22 22 67 22 | ype: LC n ID: R2 Date: 12 2.5 1.0 1.0 1.0 2.0 1.0 | S 2998 2/8/2014 SPK value 20.00 20.00 20.00 20.00 60.00 20.00 | Tes R S SPK Ref Val 0 0 0 0 0 0 0 0 0 | tCode: El tunNo: 2 SeqNo: 6 %REC 106 109 111 111 112 111 | PA Method 2998 79368 LowLimit 67.4 80 80 80 80 80 80 80 | 8021B: Volat Units: µg/L HighLimit 147 120 120 120 120 120 120 | iles %RPD | RPDLimit | Qual |
| Sample ID 100NG BTEX LCS Client ID: LCSW Prep Date: Analyte Methyl tert-butyl ether (MTBE) Benzene Toluene Ethylbenzene Xylenes, Total 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene | SampT Batch Analysis D Result 21 22 22 22 67 22 22 22 22 | Type: LC n ID: R2 Date: 12 PQL 2.5 1.0 1.0 1.0 2.0 1.0 1.0 1.0 1.0 | S 2998 2/8/2014 SPK value 20.00 20.00 20.00 60.00 20.00 20.00 20.00 | Tes R S SPK Ref Val 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | tCode: El RunNo: 2 SeqNo: 6 %REC 106 109 111 111 112 111 111 | PA Method 2998 79368 LowLimit 67.4 80 80 80 80 80 80 80 80 80 | 8021B: Volat Units: µg/L HighLimit 147 120 120 120 120 120 120 120 | iles %RPD | RPDLimit | Qual |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2.
 - RL Reporting Detection Limit

| HALL ENVIRONMENTAL ANALYSIS LABORATORY | Hall Environmento Al TEL: 505-345-397 Website: www.l | al Analysis Laborator 4901 Hawkins N buquerque, NM 8710 75 FAX: 505-345-410 nallenvironmental.com | ⁷² 25 25 77 77 | Sample Log-In Check List | | | | | | | |
|---|---|---|---------------------------------------|-------------------------------------|--|--|--|--|--|--|--|
| Client Name: LTE | Work Order Numbe | r: 1412300 | | RcptNo: 1 | | | | | | | |
| Received by/date:LM | 12/05/14 | <i>i</i> | | | | | | | | | |
| Logged By: Celina Sessa | 12/5/2014 7:45:00 AM | Λ | Celin S. | men | | | | | | | |
| Completed By: Celina Sessa | 12/5/2014 10:50:47 A | М | Celin S | 7.54-5- | | | | | | | |
| Reviewed By: | 17/05/20 | 14 | | | | | | | | | |
| Chain of Custody | | | | | | | | | | | |
| 1. Custody seals intact on sample bottles? | | Yes 🗌 | No 🗌 | Not Present 🗹 | | | | | | | |
| 2. Is Chain of Custody complete? | | Yes 🔽 | No 🗌 | Not Present | | | | | | | |
| 3. How was the sample delivered? | | Courier | | | | | | | | | |
| <u>Log In</u> | | | | | | | | | | | |
| 4. Was an attempt made to cool the sample | es? | Yes 🗹 | No 🗌 | | | | | | | | |
| 5. Were all samples received at a temperat | ure of >0° C to 6.0°C | Yes 🔽 | No 🗌 | | | | | | | | |
| 6. Sample(s) in proper container(s)? | | Yes 🗹 | No 🗌 | | | | | | | | |
| 7. Sufficient sample volume for indicated te | st(s)? | Yes 🗹 | No 🗌 | | | | | | | | |
| 8. Are samples (except VOA and ONG) pro | perly preserved? | Yes 🔽 | No 🗌 | | | | | | | | |
| 9. Was preservative added to bottles? | | Yes 🗌 | No 🗹 | NA 🗌 | | | | | | | |
| 10.VOA vials have zero headspace? | | Yes 🔽 | No 🗌 | No VOA Vials | | | | | | | |
| 11. Were any sample containers received bi | oken? | Yes 🗌 | No 🗹 | # of preserved | | | | | | | |
| 12.Does paperwork match bottle labels? (Note discrepancies on chain of custody) | | Yes 🗹 | No 🗆 | for pH: (<2 or >12 unless noted) | | | | | | | |
| 13. Are matrices correctly identified on Chair | of Custody? | Yes 🗹 | No 🗌 | Adjusted? | | | | | | | |
| 14. Is it clear what analyses were requested | ? | Yes 🗹 | No 🗌 | | | | | | | | |
| 15. Were all holding times able to be met? (If no, notify customer for authorization.) | | Yes 🗹 | No 🗌 | Checked by: | | | | | | | |
| Special Handling (if applicable) | | | | | | | | | | | |
| 16. Was client notified of all discrepancies w | ith this order? | Yes | No 🗌 | | | | | | | | |

| Person Notified: | Date |
|----------------------|--|
| By Whom: | Via: 🗌 eMail 🗌 Phone 🗌 Fax 🗌 In Person |
| Regarding: | |
| Client Instructions: | |

17. Additional remarks:

18. Cooler Information

| [| Cooler No | Temp °C | Condition | Seal Intact Seal No | Seal Date | Signed By |
|---|-----------|---------|-----------|---------------------|-----------|-----------|
| [| 1 | 2.7 | Good | Not Present | | |

| | ANAL ENVIKONMENIAL ANALYSTS LABORATORY | www.hallenvironmental.com | 4901 Hawkins NE - Albuquerque, NM 87109 | Tel 505-345-3975 Fax 505-345-4107 | Analysis Request | | PO4,5 (802' (802' (802' (802' | и) 52085 9085 100 ⁵¹ 100 100 100 100 100 100 100 100 100 1 | Y OF Y | Signal Control | | | | | | | | Time Remarks: 1235 Time | f 0子化ら monotone of this monothing. Answer contracted data will be clearly noteled on the analytical report. |
|-------------------------|---|---------------------------|---|-----------------------------------|----------------------|-----------------------------------|---|--|---|--|-----------------|----------------|--------------|--|--|--|--|--|--|
| urn-Around Lime; | Randard 🗆 Rush | Project Name: | FIORANCE TTY | rdject #. | 03401201C | Project Manager: | Ashley HoleL | sampler: Dunie Nauman | 0n Ice: 文Yes □ No Samnia Temnératrire: - 2 · 구 | Container Preservative HEAL No. Type and # Type [14] 2300 | 3100 Hz/ -001 | 1 VOD HCI -002 | | | | | | ecceived by: Date Time | 12/02/14 07 |
| Chain-of-Custody Record | Client: LT EN innen la 1 | | Mailing Address: QQUS, Main Ave #5 | 1 10516 (a) KNOW | Phone # 470-395-1096 | email or Fax#: Aoger (a) How .Com | QA/QC Package: | Accreditation | | Date Time Matrix Sample Request ID | 2/4 020 CM MW-4 | Trip Blank | +6, 12/05/14 | | | | | Date: Time: Relipopyis/ed by: 2/4 1255 6 6 6 6 6 10 10 10 10 10 10 10 10 10 10 10 10 10 | 44/14/1844/Anctullale |